3045-40

Area Wage Survey

Bergen–Passaic, New Jersey, Metropolitan Area September 1988

U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 3045-40

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Preface

This bulletin provides results of a September 1988 survey of occupational earnings in the Bergen-Passaic, NJ, Primary Metropolitan Statistical Area. The survey was made as part of the Bureau of Labor Statistics' area wage survey program. It was conducted by the Bureau's regional office in New York, NY, under the general direction of Robert M. Findley, Assistant Regional Commissioner for Operations. The Bureau wishes to express its appreciation for the cooperation of the many firms that provided the data on which this bulletin is based.

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Note:

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Area Wage Survey

Bergen–Passaic, New Jersey, Metropolitan Area September 1988

U.S. Department of Labor
Ann McLaughlin, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
December 1988

Bulletin 3045-40

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Introduction

The Bureau of Labor Statistics is restructuring its area wage survey program to reflect changes in the number and geographic boundaries of the Nation's metropolitan statistical areas. In place of annual studies of 70 areas, the new program, when fully implemented in 1990, will cover 32 areas on an annual basis and two groups of 29 areas in alternate years.

This is 1 of the 32 areas being surveyed each year. While occupational earnings are presented annually (A-series tables), information on establishment practices and employee benefits (B-series tables) is presented every third year, when Bureau field representatives obtain such data during personal visits to respondents. This report has no B-series tables.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

Earnings

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where possible, occupations with related duties (e.g., accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B. For 31 large survey areas, tables A-12 through A-17 provide similar data for establishments employing 500 workers or more.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where possible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program and provides information on the scope of the survey.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

Table A-1. Weekly earnings of office workers in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[3]	Middle range[3]	Under 190	190 and under 200	200 – 210	210 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 520	520 – 540	540 and over
Secretarial and keyboarding occupations																										
Secretaries	3,397	37.5	419.00	404.50	366.00– 461.50	–	–	–	–	4	12	17	31	75	249	333	467	381	378	273	289	177	223	217	84	189
Manufacturing	1,653	37.5	425.50	406.00	367.50– 473.00	–	–	–	–	–	8	–	21	31	99	167	210	213	153	135	129	106	74	138	47	122
Nonmanufacturing	1,744	37.5	412.50	403.00	365.00– 454.50	–	–	–	–	4	4	17	10	44	150	166	257	168	223	138	160	71	149	79	37	67
Secretaries I	574	37.5	362.50	350.00	326.50– 392.50	–	–	–	–	3	11	10	11	47	113	126	67	64	33	33	28	16	4	8	–	–
Manufacturing	409	37.5	376.00	368.00	340.00– 409.00	–	–	–	–	–	8	–	7	16	66	82	52	58	32	32	28	16	4	8	–	–
Nonmanufacturing	165	38.0	328.50	330.00	313.00– 346.50	–	–	–	–	3	3	10	4	31	47	44	15	6	1	1	–	–	–	–	–	–
Secretaries II	709	37.5	378.00	373.00	350.50– 403.00	–	–	–	–	1	1	7	20	23	75	132	183	75	92	36	55	13	6	8	–	2
Manufacturing	305	37.5	384.50	376.00	350.50– 413.50	–	–	–	–	–	–	–	14	11	26	46	61	31	44	21	34	9	2	4	–	2
Nonmanufacturing	404	37.5	372.50	373.00	350.00– 397.50	–	–	–	–	1	1	7	6	12	49	86	102	44	48	15	21	4	4	4	–	–
Secretaries III	1,267	37.0	422.00	410.00	375.50– 460.50	–	–	–	–	–	–	–	–	5	60	72	221	194	153	121	120	73	94	80	34	40
Manufacturing	535	37.0	431.50	416.00	379.00– 480.00	–	–	–	–	–	–	–	–	4	7	38	88	97	37	50	41	38	27	52	20	36
Nonmanufacturing	732	37.5	415.00	408.00	375.00– 450.00	–	–	–	–	–	–	–	–	1	53	34	133	97	116	71	79	35	67	28	14	4
Secretaries IV	718	37.0	471.00	467.50	423.00– 505.50	–	–	–	–	–	–	–	–	–	–	3	16	48	94	78	80	67	116	110	37	69
Manufacturing	328	37.5	478.50	480.00	426.50– 513.50	–	–	–	–	–	–	–	–	–	–	1	9	27	38	29	25	35	39	68	17	* 40
Nonmanufacturing	390	36.5	465.00	461.00	422.50– 496.00	–	–	–	–	–	–	–	–	–	–	2	7	21	56	49	55	32	77	42	20	29
Transportation and utilities	35	38.0	455.00	465.00	418.00– 480.00	–	–	–	–	–	–	–	–	–	–	–	2	3	5	2	5	4	8	6	–	–
Secretaries V	128	37.5	573.50	576.00	513.00– 638.00	–	–	–	–	–	–	–	–	–	–	–	–	–	4	5	6	8	3	11	13	* * 78
Manufacturing	76	36.0	578.50	564.00	512.50– 634.00	–	–	–	–	–	–	–	–	–	–	–	–	–	2	3	1	8	2	6	10	44
Nonmanufacturing	52	39.5	565.50	576.00	519.00– 642.50	–	–	–	–	–	–	–	–	–	–	–	–	–	2	2	5	–	1	5	3	34
Typists	268	37.5	284.50	285.00	258.00– 301.00	–	4	–	3	17	47	49	50	46	21	17	5	1	–	–	–	–	–	–	–	–
Manufacturing	141	38.0	288.00	285.00	264.50– 301.00	–	–	–	–	9	25	14	33	37	9	12	2	–	–	–	–	–	–	–	–	–
Nonmanufacturing	127	37.0	281.00	275.00	255.00– 295.50	–	4	–	3	8	22	35	25	9	12	5	3	1	–	–	–	–	–	–	–	–
Typists I	185	37.0	276.00	274.00	255.00– 296.00	–	4	–	3	15	39	35	44	28	14	2	–	1	–	–	–	–	–	–	–	–
Manufacturing	105	37.5	277.00	285.00	258.00– 301.00	–	–	–	–	9	24	14	30	20	8	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	80	36.5	275.00	273.50	255.00– 295.50	–	4	–	3	6	15	21	14	8	6	2	–	1	–	–	–	–	–	–	–	–
Typists II	83	37.5	304.00	300.00	275.00– 337.00	–	–	–	–	2	8	14	14	18	7	15	5	–	–	–	–	–	–	–	–	–
Word processors	281	37.5	374.50	369.00	335.00– 403.00	–	–	–	–	–	1	1	15	6	49	41	42	42	32	25	11	6	10	–	–	–
Manufacturing	104	38.5	374.50	369.50	332.00– 408.50	–	–	–	–	–	–	–	10	2	22	11	11	21	2	13	–	4	8	–	–	–
Nonmanufacturing	177	37.0	374.50	367.50	340.00– 403.00	–	–	–	–	–	1	1	5	4	27	30	31	21	30	12	11	2	2	–	–	–
Word processors I	108	37.5	352.00	346.00	331.50– 378.50	–	–	–	–	–	1	1	7	5	26	21	20	9	12	2	2	–	–	–	–	–
Nonmanufacturing	71	37.5	360.50	348.00	340.00– 384.00	–	–	–	–	–	1	1	4	3	8	19	10	9	12	2	2	–	–	–	–	–
Word processors II	173	37.5	388.50	388.50	355.00– 422.50	–	–	–	–	–	–	–	8	1	21	20	22	33	20	23	9	6	10	–	–	–
Manufacturing	67	38.5	395.50	388.50	355.00– 422.50	–	–	–	–	–	–	–	7	–	2	9	1	21	2	13	–	4	8	–	–	–
Nonmanufacturing	106	36.5	384.00	379.00	355.00– 413.00	–	–	–	–	–	–	–	1	1	19	11	21	12	18	10	9	2	2	–	–	–
Key entry operators	1,716	38.5	311.00	300.00	260.00– 350.00	3	12	50	41	64	192	219	239	196	184	164	113	36	67	43	26	44	4	17	2	–
Manufacturing	436	37.5	313.00	304.50	272.50– 346.00	–	–	–	–	4	26	87	89	47	56	50	41	17	15	–	–	4	–	–	–	–
Nonmanufacturing	1,280	39.0	310.00	300.00	256.00– 350.00	3	12	50	41	60	166	132	150	149	128	114	72	19	52	43	26	40	4	17	2	–
Transportation and utilities	65	40.0	363.00	356.00	338.50– 436.50	–	–	4	–	4	–	–	–	8	2	19	–	3	6	12	7	–	–	–	–	–
Key entry operators I	1,087	39.0	277.00	272.50	252.00– 300.00	3	12	50	41	64	189	212	195	140	73	64	16	21	7	–	–	–	–	–	–	–
Manufacturing	225	37.5	289.50	279.00	268.00– 295.00	–	–	–	–	4	26	83	62	21	2	5	9	13	–	–	–	–	–	–	–	–
Nonmanufacturing	862	39.5	274.00	270.00	244.00– 300.00	3	12	50	41	60	163	129	133	119	71	59	7	8	7	–	–	–	–	–	–	–
Key entry operators II	629	38.0	369.50	355.00	329.50– 400.00	–	–	–	–	–	3	7	44	56	111	100	97	15	60	43	26	44	4	17	2	–
Manufacturing	211	37.5	338.50	331.50	315.50– 361.00	–	–	–	–	–	–	4	27	26	54	45	32	4	15	–	–	4	–	–	–	–
Nonmanufacturing	418	38.0	385.00	375.00	334.50– 431.50	–	–	–	–	–	3	3	17	30	57	55	65	11	45	43	26	40	4	17	2	–
Transportation and utilities	29	40.0	403.50	438.00	314.00– 440.00	–	–	–	–	–	–	–	–	8	–	1	–	1	–	12	7	–	–	–	–	–

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Bergen-Passaic, NJ, September 1988 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[3]	Middle range[3]	Under 190	190 and under 200	200 – 210	210 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 520	520 – 540	540 and over
Other clerical occupations																										
Accounting clerks	2,414	37.5	356.00	348.00	308.00– 395.00	–	–	46	–	21	78	143	198	278	302	301	246	258	107	75	117	127	22	77	4	14
Manufacturing	987	37.5	350.00	346.00	308.00– 384.50	–	–	–	–	6	15	48	106	135	123	145	137	146	42	19	23	24	4	6	–	8
Nonmanufacturing	1,427	37.5	360.50	349.00	308.00– 418.00	–	–	46	–	15	63	95	92	143	179	156	109	112	65	56	94	103	18	71	4	6
Accounting clerks I	410	37.5	295.00	288.00	274.00– 307.00	–	–	–	–	7	51	86	115	73	39	13	10	2	10	2	–	–	2	–	–	–
Nonmanufacturing	278	37.5	298.00	286.00	269.00– 323.00	–	–	–	–	5	40	68	56	36	34	13	10	2	10	2	–	–	2	–	–	–
Accounting clerks II	977	37.0	327.50	329.50	308.00– 355.00	–	–	46	–	4	27	47	60	189	193	190	89	106	13	11	–	–	–	2	–	–
Manufacturing	467	37.5	337.50	338.00	310.00– 365.00	–	–	–	–	4	4	21	24	91	97	93	40	92	1	–	–	–	–	–	–	–
Nonmanufacturing	510	37.0	318.50	325.00	299.50– 349.00	–	–	46	–	–	23	26	36	98	96	97	49	14	12	11	–	–	2	–	–	–
Transportation and utilities	87	38.5	259.00	203.00	203.00– 318.50	–	–	46	–	–	5	7	4	7	7	4	3	–	2	–	–	–	2	–	–	–
Accounting clerks III	847	38.0	393.50	388.00	359.00– 450.00	–	–	–	–	10	–	10	23	16	68	89	145	139	68	56	100	106	6	6	–	5
Manufacturing	358	37.5	380.00	372.50	355.00– 400.00	–	–	–	–	–	–	9	23	7	19	48	95	52	39	17	20	24	–	–	–	5
Nonmanufacturing	489	38.5	403.00	395.00	370.00– 459.50	–	–	–	–	10	–	1	–	9	49	41	50	87	29	39	80	82	6	6	–	–
Accounting clerks IV	180	38.5	473.50	484.00	432.50– 515.00	–	–	–	–	–	–	–	–	–	2	9	2	11	16	6	17	21	14	69	4	9
Nonmanufacturing	150	38.5	479.00	484.00	440.00– 515.00	–	–	–	–	–	–	–	–	–	–	5	–	9	14	4	14	21	10	63	4	6
Payroll clerks	242	37.5	364.50	351.50	325.00– 390.00	–	–	–	–	1	6	12	19	33	58	60	47	37	12	15	7	3	15	3	9	5
Manufacturing	203	37.5	374.00	360.00	330.00– 394.50	–	–	–	–	–	–	4	5	27	37	26	32	25	8	9	2	3	13	1	9	2
Nonmanufacturing	139	37.0	350.50	345.50	312.00– 379.00	–	–	–	–	1	6	8	14	6	21	34	15	12	4	6	5	–	2	2	–	3
File clerks	370	37.5	253.00	249.00	229.50– 273.00	10	15	10	14	106	78	46	45	17	7	20	–	2	–	–	–	–	–	–	–	–
Manufacturing	132	37.5	263.00	246.50	229.50– 280.00	–	–	–	9	57	10	8	20	8	2	18	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	238	37.0	248.00	249.00	228.50– 264.00	10	15	10	5	49	68	38	25	9	5	2	–	2	–	–	–	–	–	–	–	–
File clerks I	249	37.5	240.00	235.00	225.00– 257.50	10	15	10	14	80	62	31	16	9	2	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	209	37.0	242.00	240.00	225.00– 260.00	10	15	10	5	49	62	31	16	9	2	–	–	–	–	–	–	–	–	–	–	–
File clerks II	106	37.5	276.00	273.00	254.00– 300.00	–	–	–	–	26	16	15	20	8	3	18	–	–	–	–	–	–	–	–	–	–
Manufacturing	90	37.5	276.00	280.00	258.00– 300.00	–	–	–	–	26	10	8	20	8	–	18	–	–	–	–	–	–	–	–	–	–
Messengers	101	37.5	257.50	251.50	234.00– 279.50	–	–	–	7	22	36	13	14	9	–	–	–	–	–	–	–	–	–	–	–	–
Manufacturing	77	37.5	260.50	251.50	250.00– 282.00	–	–	–	6	20	20	8	14	9	–	–	–	–	–	–	–	–	–	–	–	–
Order clerks	803	36.5	337.00	320.00	299.00– 364.50	–	–	–	2	2	–	75	149	221	134	76	50	16	65	64	18	23	–	8	–	–
Manufacturing	408	37.0	364.50	350.00	307.00– 423.00	–	–	–	–	–	–	28	31	52	59	51	23	11	50	59	18	18	–	8	–	–
Nonmanufacturing	495	36.5	314.00	308.00	295.00– 326.00	–	–	–	2	2	–	47	118	169	75	25	27	5	15	5	–	5	–	–	–	–
Order clerks I	455	37.0	303.00	300.00	285.00– 315.00	–	–	–	2	2	–	63	129	148	66	35	10	–	–	–	–	–	–	–	–	–
Manufacturing	134	37.0	312.00	301.50	290.00– 330.00	–	–	–	–	–	–	16	31	36	18	25	8	–	–	–	–	–	–	–	–	–
Order clerks II	448	36.5	371.00	363.00	322.00– 421.00	–	–	–	–	–	–	12	20	73	68	41	40	16	65	64	18	23	–	8	–	–
Manufacturing	274	37.0	390.00	400.00	337.00– 438.00	–	–	–	–	–	–	12	–	16	41	26	15	11	50	59	18	18	–	8	–	–
Receptionists	50	38.0	319.00	289.50	250.00– 375.00	–	–	–	–	–	23	–	3	3	–	–	15	–	–	4	–	–	–	–	–	2
Switchboard operators	71	38.0	309.50	310.00	290.00– 320.00	–	–	–	–	1	4	9	9	26	13	1	2	6	–	–	–	–	–	–	–	–
Switchboard operator-receptionists	684	37.5	319.50	309.50	262.50– 336.00	–	–	–	–	28	80	53	110	115	130	3	22	66	30	35	1	–	7	2	2	–
Manufacturing	294	37.5	313.00	300.00	270.00– 321.00	–	–	–	–	19	48	40	29	55	45	–	5	17	1	34	1	–	–	2	–	–
Nonmanufacturing	390	37.5	325.00	310.00	290.00– 365.00	–	–	–	–	9	34	13	81	60	85	3	17	49	29	1	–	–	7	–	2	–

[*] Workers were distributed as follows: 5 at $540 to $560; 10 at $560 to $580; 1 at $580 to $600; 16 at $600 to $620; and 8 at $620 and over.

[**] Workers were distributed as follows: 7 at $540 to $560; 18 at $560 to $580; 5 at $580 to $600; 5 at $600 to $620; 13 at $620 to $640; 13 at $640 to $660; 1 at $660 to $680; 9 at $680 to $700; and 7 at $720 and over.

Also see footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean[3]	Median[3]	Middle range[3]	Under 280	280 and under 320	320 – 360	360 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 840	840 – 880	880 – 920	920 – 960	960 – 1000	1000 – 1040	1040 and over
Computer systems analysts	1,073	37.5	784.50	779.00	690.00– 864.00	–	–	–	12	12	9	9	26	50	35	99	82	115	148	120	107	46	77	38	30	58
Manufacturing	448	38.0	820.00	802.50	711.50– 928.00	–	–	–	–	–	–	–	5	24	16	38	33	41	55	73	25	18	39	29	14	38
Nonmanufacturing	625	37.5	759.00	769.50	676.00– 854.50	–	–	–	12	12	9	9	21	26	19	61	49	74	93	47	82	28	38	9	16	20
Computer systems analysts I	107	36.5	605.50	612.00	553.00– 672.00	–	–	–	–	–	9	5	19	17	20	23	6	6	2	–	–	–	–	–	–	–
Computer systems analysts II	433	38.0	699.50	711.50	666.50– 761.50	–	–	–	12	12	–	4	7	33	19	74	71	85	55	42	21	2	2	–	–	–
Manufacturing	165	37.5	728.50	739.00	672.00– 795.00	–	–	–	–	–	–	–	–	24	3	23	22	27	25	26	11	2	2	–	–	–
Nonmanufacturing	268	38.5	682.00	700.00	655.00– 752.00	–	–	–	12	12	–	4	7	9	10	51	49	58	30	16	10	–	–	–	–	–
Computer systems analysts III	413	37.0	868.50	850.00	787.00– 932.00	–	–	–	–	–	–	–	–	–	2	2	5	24	89	71	64	25	53	25	20	33
Manufacturing	175	38.0	865.50	833.50	787.00– 942.00	–	–	–	–	–	–	–	–	–	–	2	5	10	30	46	13	13	20	18	5	13
Nonmanufacturing	238	36.5	870.50	854.50	787.00– 931.00	–	–	–	–	–	–	–	–	–	2	–	–	14	59	25	51	12	33	7	15	20
Computer systems analysts IV	120	39.5	962.00	928.00	878.00–1020.00	–	–	–	–	–	–	–	–	–	–	–	–	–	2	7	22	19	22	13	10	* 25
Computer programmers	806	38.0	624.00	606.00	527.50– 710.50	–	–	3	5	28	63	92	80	125	104	57	55	70	26	46	25	19	4	–	4	–
Manufacturing	374	38.5	652.50	653.00	566.00– 745.50	–	–	–	1	7	10	32	40	43	45	38	43	56	26	18	6	5	4	–	–	–
Nonmanufacturing	432	37.5	599.00	583.50	487.50– 656.50	–	–	3	4	21	53	60	40	82	59	19	12	14	–	28	19	14	–	–	4	–
Computer programmers I	108	38.0	464.50	479.00	442.50– 490.00	–	–	3	4	18	30	42	8	2	1	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	74	38.5	453.50	452.00	435.50– 486.50	–	–	3	4	12	22	32	1	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer programmers II	289	38.0	575.00	559.50	518.50– 621.00	–	–	–	1	8	33	44	66	50	31	18	9	12	9	8	–	–	–	–	–	–
Manufacturing	155	38.0	610.50	597.00	548.00– 673.00	–	–	–	1	–	2	19	30	29	26	18	9	12	9	–	–	–	–	–	–	–
Nonmanufacturing	134	38.0	534.00	524.00	471.00– 562.50	–	–	–	–	8	31	25	36	21	5	–	–	–	–	8	–	–	–	–	–	–
Computer programmers III	282	37.5	682.50	657.50	595.00– 749.00	–	–	–	–	2	–	5	5	68	52	19	29	45	14	18	6	15	4	–	–	–
Manufacturing	114	38.0	734.00	749.00	710.50– 792.00	–	–	–	–	1	–	3	3	12	2	2	18	31	14	13	6	5	4	–	–	–
Nonmanufacturing	168	37.5	647.50	626.00	595.00– 672.00	–	–	–	–	1	–	2	4	56	50	17	11	14	–	5	–	10	–	–	–	–
Computer programmers IV	127	38.5	740.00	717.00	651.00– 825.50	–	–	–	–	–	–	1	1	5	20	20	17	13	3	20	19	4	–	–	4	–
Computer operators	845	38.0	427.50	418.00	357.00– 488.00	26	83	109	139	164	99	82	65	27	15	10	18	2	–	4	–	–	2	–	–	–
Manufacturing	387	38.0	420.00	422.50	368.00– 462.00	16	21	39	83	90	63	41	13	5	13	2	1	–	–	–	–	–	–	–	–	–
Nonmanufacturing	458	38.0	434.00	413.50	345.00– 511.00	10	62	70	56	74	36	41	52	22	2	8	17	2	–	4	–	–	2	–	–	–
Computer operators I	76	38.5	300.50	290.00	268.00– 339.00	* * 26	23	24	1	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators II	413	38.0	387.50	374.50	345.00– 422.50	–	60	71	112	110	27	6	25	2	–	–	–	–	–	–	–	–	–	–	–	–
Manufacturing	186	38.0	397.50	386.00	364.00– 432.50	–	19	13	67	53	23	2	9	–	–	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	227	37.5	379.50	368.00	333.50– 413.00	–	41	58	45	57	4	4	16	2	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators III	262	38.0	478.50	467.50	427.00– 510.00	–	–	14	26	47	58	73	17	1	6	8	6	2	–	4	–	–	–	–	–	–
Manufacturing	132	37.5	456.50	455.00	423.50– 490.00	–	–	4	16	37	31	36	3	1	4	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	130	38.5	500.50	490.00	453.50– 526.50	–	–	10	10	10	27	37	14	–	2	8	6	2	–	4	–	–	–	–	–	–
Computer operators IV	94	38.0	565.50	566.00	525.00– 613.50	–	–	–	–	5	14	3	23	24	9	2	12	–	–	–	–	–	2	–	–	–
Drafters	402	39.5	481.50	480.00	400.00– 566.50	21	23	13	17	44	78	74	18	39	47	8	20	–	–	–	–	–	–	–	–	–
Manufacturing	244	39.0	479.00	475.00	450.00– 566.50	17	17	13	9	3	67	32	14	27	41	4	–	–	–	–	–	–	–	–	–	–
Drafters III	183	39.5	483.50	475.00	425.00– 500.00	–	–	4	2	43	48	50	–	–	36	–	–	–	–	–	–	–	–	–	–	–
Manufacturing	89	39.5	527.00	500.00	474.00– 619.00	–	–	4	–	2	37	10	–	–	36	–	–	–	–	–	–	–	–	–	–	–
Drafters IV	97	38.5	515.50	500.00	467.00– 560.00	–	–	–	–	1	30	24	12	25	5	–	–	–	–	–	–	–	–	–	–	–
Manufacturing	91	38.0	514.50	500.00	462.00– 560.00	–	–	–	–	1	30	22	10	23	5	–	–	–	–	–	–	–	–	–	–	–

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Bergen-Passaic, NJ, September 1988 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[3]	Middle range[3]	Under 280	280 and under 320	320 – 360	360 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 840	840 – 880	880 – 920	920 – 960	960 – 1000	1000 – 1040	1040 and over
Electronics technicians	516	38.5	530.50	527.50	477.00– 581.50	–	5	24	6	66	41	66	150	31	11	116	–	–	–	–	–	–	–	–	–	–
Manufacturing	289	39.5	491.00	527.50	450.00– 527.50	–	–	14	–	51	26	46	135	13	1	3	–	–	–	–	–	–	–	–	–	–
Electronics technicians II	412	39.0	548.00	527.50	489.50– 678.50	–	–	9	5	52	31	20	149	27	6	113	–	–	–	–	–	–	–	–	–	–
Manufacturing	216	39.5	495.00	527.50	450.00– 527.50	–	–	9	–	42	16	5	134	9	1	–	–	–	–	–	–	–	–	–	–	–

* Workers were distributed as follows: 5 at $1,040 to $1,080; 4 at $1,080 to $1,120; 4 at $1,120 to $1,160; 6 at $1,160 to $1,200; and 6 at $1,200 and over.

** Workers were distributed as follows: 4 at $200 to $240; and 22 at $240 to $280.

Also see footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Bergen-Passaic, NJ, September 1988

Sex,[4] occupation, and industry division	Number of workers	Average (mean[2])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[3]
Office occupations – men			
Key entry operators	99	39.5	305.50
Nonmanufacturing	98	39.5	305.50
Key entry operators I	82	39.5	275.50
Nonmanufacturing	81	39.5	275.50
Accounting clerks:			
Manufacturing	83	37.5	358.50
Accounting clerks III	92	39.0	412.00
Office occupations – women			
Secretaries	3,296	37.0	417.50
Manufacturing	1,652	37.5	425.00
Nonmanufacturing	1,644	37.0	409.50
Secretaries I	574	37.5	362.50
Manufacturing	409	37.5	376.00
Nonmanufacturing	165	38.0	328.50
Secretaries II	693	37.5	378.50
Manufacturing	305	37.5	384.50
Nonmanufacturing	388	37.5	373.00
Secretaries III	1,214	37.0	420.50
Manufacturing	535	37.0	431.50
Nonmanufacturing	679	37.0	412.00
Secretaries IV	704	37.0	470.50
Manufacturing	328	37.5	478.50
Nonmanufacturing	376	36.5	463.50
Transportation and utilities	35	38.0	455.00
Secretaries V	111	37.0	572.00
Manufacturing	75	36.0	580.00
Typists	266	37.5	284.00
Manufacturing	141	38.0	288.00
Nonmanufacturing	125	37.0	280.00
Typists I	183	37.0	275.50
Manufacturing	105	37.5	277.00
Nonmanufacturing	78	36.5	273.00
Typists II	83	37.5	304.00
Word processors	268	37.5	374.50
Manufacturing	104	38.5	374.50
Nonmanufacturing	164	37.0	375.00
Word processors I	103	37.5	353.50
Nonmanufacturing	66	37.5	362.50
Word processors II	165	37.5	388.00
Manufacturing	67	38.5	395.50
Nonmanufacturing	98	36.5	383.00
Key entry operators	1,602	38.5	311.50
Manufacturing	435	37.5	313.50
Nonmanufacturing	1,167	39.0	310.50
Transportation and utilities	53	40.0	368.00
Key entry operators I	993	39.0	277.00
Manufacturing	224	37.5	289.50
Nonmanufacturing	769	39.5	273.50
Key entry operators II	609	38.0	367.50
Manufacturing	211	37.5	338.50
Nonmanufacturing	398	38.0	383.00
Transportation and utilities	27	40.0	401.00
Accounting clerks	2,094	37.5	357.50
Manufacturing	904	37.5	349.00
Nonmanufacturing	1,190	37.5	364.00
Accounting clerks I	357	37.5	296.50
Nonmanufacturing	243	38.0	301.00
Accounting clerks II	838	37.5	332.00
Manufacturing	445	37.5	337.50
Nonmanufacturing	393	37.0	325.50
Transportation and utilities	65	38.0	274.00
Accounting clerks III	741	38.0	391.50
Manufacturing	315	37.5	378.00
Nonmanufacturing	426	38.0	401.50
Accounting clerks IV	158	38.0	472.00
Nonmanufacturing	128	38.5	478.00
Payroll clerks	303	37.5	368.00
Manufacturing	194	37.5	372.50
File clerks	355	37.5	253.00
Manufacturing	132	37.5	263.00
Nonmanufacturing	223	37.0	247.00
File clerks I	234	37.5	239.00
Nonmanufacturing	194	37.0	240.50
File clerks II	106	37.5	276.00
Manufacturing	90	37.5	276.00
Messengers	54	38.0	264.00
Order clerks	868	36.5	335.50
Manufacturing	390	37.0	360.50
Nonmanufacturing	478	36.5	314.50
Order clerks I	443	37.0	303.00
Manufacturing	134	37.0	312.00
Order clerks II	425	36.5	369.00
Manufacturing	256	37.0	386.00
Switchboard operators	67	38.0	310.00
Switchboard operator-receptionists	679	37.5	320.00
Manufacturing	294	37.5	313.00
Nonmanufacturing	385	37.5	325.50
Professional and technical occupations – men			
Computer systems analysts	747	37.5	792.00
Manufacturing	339	38.0	835.00
Nonmanufacturing	408	37.5	757.00
Computer systems analysts I	74	37.0	596.50
Computer systems analysts II	291	38.0	700.00
Manufacturing	118	37.5	737.50
Nonmanufacturing	173	38.5	674.00
Computer systems analysts III	296	37.5	875.00
Manufacturing	126	38.0	881.00
Nonmanufacturing	170	37.0	870.50
Computer systems analysts IV	86	39.0	988.50
Computer programmers	498	38.0	633.50
Manufacturing	217	38.5	656.00
Nonmanufacturing	281	37.5	615.00
Computer programmers I	77	38.5	460.00
Computer programmers II	145	38.0	584.50
Manufacturing	79	38.0	604.50
Nonmanufacturing	66	38.5	560.50
Computer programmers III	195	37.5	686.00
Manufacturing	80	38.0	736.00
Nonmanufacturing	115	37.0	651.00
Computer programmers IV	81	37.5	760.00
Computer operators	568	38.0	433.50
Manufacturing	248	37.5	428.00
Nonmanufacturing	320	38.5	438.00
Computer operators II	251	38.0	379.50
Manufacturing	107	38.0	383.00
Nonmanufacturing	144	38.0	376.50
Computer operators III	220	38.0	462.50
Manufacturing	115	37.5	457.00
Nonmanufacturing	105	38.5	510.50
Computer operators IV	53	38.5	602.00
Drafters	322	39.0	495.50
Manufacturing	222	39.0	499.00
Drafters III	166	39.3	487.50
Manufacturing	89	39.5	527.00
Drafters IV	91	38.0	514.50
Manufacturing	91	38.0	514.50

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Bergen-Passaic, NJ, September 1988 —Continued

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[2]
Electronics technicians	490	38.5	524.50
Manufacturing	283	39.5	490.50
Electronics technicians II	386	39.0	541.50
Manufacturing	210	39.5	494.00
Professional and technical occupations – women			
Computer systems analysts	297	37.5	763.00
Manufacturing	109	37.5	773.00
Nonmanufacturing	188	37.5	757.00
Computer systems analysts II	124	37.5	692.00
Computer systems analysts III	109	36.5	848.50
Nonmanufacturing	60	36.0	867.50
Computer programmers	287	38.0	606.00
Manufacturing	145	38.5	636.00
Nonmanufacturing	142	37.5	575.50
Computer programmers II	138	38.0	571.00
Manufacturing	76	38.0	617.00
Nonmanufacturing	62	38.0	515.00
Computer programmers III	73	38.0	661.50
Nonmanufacturing	51	38.0	645.50
Computer operators	264	37.5	415.50
Manufacturing	139	38.5	406.00
Nonmanufacturing	125	36.5	426.00
Computer operators II	157	37.0	402.00
Manufacturing	79	38.5	417.50
Nonmanufacturing	78	36.0	386.50

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[3]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[2]	Median[3]	Middle range[3]	Under 8.50	8.50 and under 8.75	8.75 – 9.00	9.00 – 9.25	9.25 – 9.50	9.50 – 9.75	9.75 – 10.00	10.00 – 10.25	10.25 – 10.50	10.50 – 10.75	10.75 – 11.00	11.00 – 11.50	11.50 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 13.50	13.50 – 14.00	14.00 – 14.50	14.50 – 15.00	15.00 – 15.50	15.50 – 16.00	16.00 – 16.50	16.50 and over
Maintenance electricians	148	13.35	13.22	12.17–14.58	–	–	–	–	–	–	–	–	–	–	–	20	6	22	8	25	5	15	39	–	8	–	–
Manufacturing	147	13.35	13.22	12.17–14.58	–	–	–	–	–	–	–	–	–	–	–	20	6	22	8	25	4	15	39	–	8	–	–
Maintenance machinists	219	14.04	14.76	12.48–15.64	–	–	–	–	–	–	–	8	–	–	–	5	–	46	–	47	–	–	12	40	24	37	–
Manufacturing	219	14.04	14.76	12.48–15.64	–	–	–	–	–	–	–	8	–	–	–	5	–	46	–	47	–	–	12	40	24	37	–
Maintenance mechanics (machinery)	1,059	12.53	13.05	10.88–14.13	16	–	–	24	16	16	36	74	72	–	31	38	124	50	8	90	87	306	15	18	4	25	9
Manufacturing	1,059	12.53	13.05	10.88–14.13	16	–	–	24	16	16	36	74	72	–	31	38	124	50	8	90	87	306	15	18	4	25	9
Motor vehicle mechanics	300	13.08	13.66	11.77–14.30	18	4	5	–	7	1	–	1	–	3	11	11	39	15	3	25	38	46	3	33	2	4	• 31
Nonmanufacturing	251	13.03	13.66	11.57–15.00	18	4	–	–	7	1	–	1	–	3	11	11	39	15	3	3	26	44	–	30	1	3	31
Transportation and utilities	213	13.50	14.00	11.70–15.03	7	–	–	–	7	1	–	1	–	3	11	11	17	14	3	3	26	44	–	30	1	3	31
General maintenance workers	668	11.58	11.88	9.09–14.00	• • 92	11	12	53	14	32	5	29	3	36	10	8	29	109	26	19	5	30	6	25	98	15	1
Manufacturing	519	11.97	12.00	9.60–14.28	26	9	9	52	12	29	4	12	–	36	10	2	23	99	26	19	4	30	–	18	98	–	1
Nonmanufacturing	149	10.24	9.56	8.00–12.02	66	2	3	1	2	3	1	17	3	–	–	6	6	10	–	–	1	–	6	7	–	15	–
Transportation and utilities	37	13.16	15.24	11.30–16.08	6	–	–	–	–	–	–	–	3	–	–	6	–	–	–	–	1	–	–	6	–	15	–
Maintenance trades helpers	175	10.99	10.50	9.18–12.31	# 28	–	1	24	2	4	20	–	–	9	36	1	–	9	–	–	9	–	32	–	–	–	–
Manufacturing	114	11.96	10.94	10.93–14.60	8	–	–	4	2	4	–	–	–	9	36	1	–	9	–	–	9	–	32	–	–	–	–
Tool and die makers	55	14.41	14.80	13.07–15.03	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4	14	–	–	17	10	10	–	–
Manufacturing	55	14.41	14.80	13.07–15.03	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4	14	–	–	17	10	10	–	–
Stationary engineers	127	15.28	14.60	14.23–16.35	–	–	–	–	–	–	–	–	–	7	2	4	2	5	3	–	4	11	33	14	3	9	# # 30
Manufacturing	84	14.07	14.60	13.70–14.60	–	–	–	–	–	–	–	–	–	6	2	4	–	4	2	–	4	10	32	10	2	8	–

• Workers were distributed as follows: 16 at $16.50 to $17.00; and 15 at $17.00 to $17.50.

• • Workers were distributed as follows: 23 under $7.25; 7 at $7.25 to $7.50; 21 at $7.50 to $7.75; 28 at $8.00 to $8.25; and 13 at $8.25 to $8.50.

All workers were at $8.25 to $8.50.

Workers were distributed as follows: 12 at $16.50 to $17.00; 12 at $20.50 to $21.00; 4 at $21.00 to $21.50; and 2 at $21.50 to $22.00.

Also see footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[2]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[2]	Median[3]	Middle range[3]	Under 4.00	4.00 and under 4.50	4.50 – 5.00	5.00 – 5.50	5.50 – 6.00	6.00 – 6.50	6.50 – 7.00	7.00 – 7.50	7.50 – 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 11.50	11.50 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 14.00	14.00 – 15.00	15.00 – 16.00	16.00 and over
Truckdrivers	2,046	11.44	10.70	8.55–15.03	–	–	–	–	–	49	17	64	62	190	200	143	174	63	210	2	123	24	20	6	72	620	7
Manufacturing	646	10.45	10.42	8.78–10.95	–	–	–	–	–	2	17	17	18	49	65	61	80	19	188	–	32	–	20	6	28	37	7
Nonmanufacturing	1,400	11.89	11.81	8.50–15.03	–	–	–	–	–	47	–	47	44	141	135	82	94	44	22	2	91	24	–	–	44	583	–
Transportation and utilities	674	15.20	15.03	15.03–15.92	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	25	24	–	–	42	583	–
Truckdrivers, light truck	138	8.19	8.20	7.00– 8.78	–	–	–	–	–	2	17	16	–	41	33	23	–	–	4	2	–	–	–	–	–	–	–
Manufacturing	134	8.13	8.00	7.00– 8.78	–	–	–	–	–	2	17	16	–	41	33	21	–	–	4	–	–	–	–	–	–	–	–
Truckdrivers, medium truck	888	10.46	9.50	8.00–10.91	–	–	–	–	–	47	–	48	18	149	79	87	174	13	55	–	–	–	4	6	3	198	7
Manufacturing	300	10.58	9.87	9.36–10.65	–	–	–	–	–	–	–	1	18	8	32	40	80	13	55	–	–	–	4	6	3	33	7
Truckdrivers, heavy truck	310	10.71	10.11	8.50–12.50	–	–	–	–	–	–	–	–	44	–	88	22	–	44	22	–	–	–	16	–	25	49	–
Nonmanufacturing	275	10.30	9.10	8.50–10.70	–	–	–	–	–	–	–	–	44	–	88	22	–	44	22	–	–	–	–	–	10	45	–
Truckdrivers, tractor-trailer	676	13.55	15.03	11.81–15.03	–	–	–	–	–	–	–	–	–	–	–	11	–	6	129	–	123	24	–	–	10	373	–
Nonmanufacturing	499	14.35	15.03	12.08–15.03	–	–	–	–	–	–	–	–	–	–	–	11	–	–	–	–	91	24	–	–	–	373	–
Transportation and utilities	422	14.88	15.03	15.03–15.03	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	25	24	–	–	–	373	–
Shippers	306	8.73	8.25	6.75–10.59	–	–	–	18	8	9	74	9	24	26	16	13	29	–	27	1	5	19	11	9	8	–	–
Manufacturing	225	8.75	8.39	6.94–10.59	–	–	–	18	8	9	27	9	24	26	16	13	18	–	27	–	5	8	–	9	8	–	–
Receivers	431	8.79	8.78	7.00–10.09	–	8	–	–	–	72	23	23	51	23	28	23	68	14	46	14	10	10	4	10	4	–	–
Manufacturing	251	9.26	9.94	7.76–10.88	–	8	–	–	–	25	9	–	28	21	14	9	54	10	40	8	9	10	2	–	4	–	–
Nonmanufacturing	180	8.13	7.75	6.00– 9.25	–	–	–	–	–	47	14	23	23	2	14	14	14	4	6	6	1	–	2	10	–	–	–
Shippers and receivers	440	9.21	8.50	7.50–11.19	–	–	3	19	–	23	7	47	50	43	82	30	2	8	–	27	24	8	41	9	1	16	–
Manufacturing	399	9.33	8.50	7.80–11.34	–	–	–	16	–	21	5	45	42	41	69	30	–	8	–	25	24	8	40	9	–	16	–
Warehousemen	1,134	10.01	9.62	8.10–11.70	–	–	–	8	50	45	18	10	50	250	35	74	99	99	35	63	70	37	45	42	47	24	33
Manufacturing	372	9.20	9.62	7.60–10.39	–	–	–	8	16	44	17	4	16	14	2	29	79	60	2	52	15	4	–	–	10	–	–
Nonmanufacturing	762	10.40	9.10	8.10–12.40	–	–	–	–	34	1	1	6	34	236	33	45	20	39	33	11	55	33	45	42	37	24	33
Transportation and utilities	39	10.60	10.25	8.00–13.33	–	–	–	–	–	–	–	6	2	8	–	1	–	6	–	–	–	–	1	9	4	2	–
Order fillers	542	7.04	7.42	5.75– 7.53	–	–	73	20	74	6	–	105	195	–	15	–	27	25	–	–	–	–	–	–	–	–	–
Shipping packers	568	6.35	4.75	4.60– 7.75	–	141	159	–	–	48	12	28	54	20	10	5	45	10	9	18	–	9	–	–	–	–	–
Manufacturing	340	7.21	6.88	4.60– 9.90	–	–	112	–	–	48	12	28	34	–	10	5	45	10	9	18	–	9	–	–	–	–	–
Material handling laborers	1,284	8.45	7.79	5.25–10.00	–	12	12	335	24	29	56	12	233	85	46	15	94	53	75	–	14	–	–	1	188	–	–
Manufacturing	408	7.74	8.41	5.50– 9.57	–	12	9	60	24	28	41	12	8	10	46	12	93	45	8	–	–	–	–	–	–	–	–
Nonmanufacturing	876	8.78	7.79	5.25–10.73	–	–	3	275	–	1	15	–	225	75	–	3	1	8	67	–	14	–	–	1	188	–	–
Forklift operators	878	10.93	12.23	9.17–12.34	–	–	10	5	5	–	24	16	–	90	14	146	62	30	2	–	8	339	2	32	92	–	1
Manufacturing	626	10.20	9.67	8.98–12.23	–	–	10	5	5	–	24	16	–	90	14	146	62	30	2	–	8	129	2	32	50	–	1
Guards	1,718	5.77	5.50	5.00– 6.00	4	56	328	397	409	183	67	37	72	25	27	36	13	10	2	3	–	–	29	–	–	–	–
Manufacturing	132	9.34	8.63	7.91–10.31	–	–	–	–	–	–	9	8	36	12	8	11	12	4	2	1	–	–	29	–	–	–	–
Nonmanufacturing	1,586	5.47	5.50	5.00– 5.77	4	56	328	397	409	183	78	29	36	13	19	25	1	6	–	2	–	–	–	–	–	–	–
Guards I	1,666	5.62	5.50	5.00– 6.00	4	56	328	397	407	183	81	34	71	25	25	27	12	10	2	3	–	–	1	–	–	–	–
Manufacturing	96	8.41	7.91	7.91– 8.95	–	–	–	–	–	–	9	8	36	12	8	3	12	4	2	1	–	–	1	–	–	–	–
Nonmanufacturing	1,570	5.45	5.38	5.00– 5.75	4	56	328	397	407	183	72	26	35	13	17	24	–	6	–	2	–	–	–	–	–	–	–
Janitors, porters, and cleaners	2,531	6.81	6.05	4.59– 8.50	117	456	189	268	204	165	77	92	122	208	192	89	50	18	38	40	86	100	28	–	12	–	–
Manufacturing	825	8.87	8.50	7.18–11.75	–	4	31	20	32	75	28	36	94	85	91	8	49	11	36	16	82	100	16	–	9	–	–
Nonmanufacturing	1,706	5.81	5.25	4.32– 6.84	117	452	158	248	172	90	49	56	28	123	101	81	1	7	2	24	4	–	10	–	3	–	–

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Bergen-Passaic, NJ, September 1988

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5]) hourly earnings (in dollars)[3]
Maintenance, toolroom, and powerplant occupations - men		
Maintenance electricians	148	13.35
Manufacturing	147	13.35
Maintenance machinists	219	14.04
Manufacturing	219	14.04
Maintenance mechanics (machinery)	1,059	12.53
Manufacturing	1,059	12.53
Motor vehicle mechanics	265	12.59
Nonmanufacturing	216	12.42
Transportation and utilities	178	12.86
General maintenance workers	647	11.44
Manufacturing	519	11.97
Nonmanufacturing	128	9.33
Maintenance trades helpers	175	10.99
Manufacturing	114	11.96
Tool and die makers	55	14.41
Manufacturing	55	14.41
Stationary engineers	121	15.30
Manufacturing	84	14.07
Material movement and custodial occupations - men		
Truckdrivers	1,738	10.64
Manufacturing	646	10.45
Truckdrivers, light truck	138	8.19
Manufacturing	134	8.13
Truckdrivers, medium truck:		
Manufacturing	300	10.58
Truckdrivers, heavy truck	265	9.82
Truckdrivers, tractor-trailer	580	13.16
Shippers	305	8.72
Manufacturing	225	8.75
Receivers	406	8.82
Manufacturing	251	9.26
Nonmanufacturing	155	8.09
Shippers and receivers	424	9.23
Manufacturing	391	9.31
Warehousemen	1,099	10.01
Manufacturing	356	9.32
Nonmanufacturing	743	10.34
Shipping packers	324	7.26
Manufacturing	324	7.26
Material handling laborers	1,190	8.63
Manufacturing	334	8.20
Nonmanufacturing	856	8.80
Forklift operators	872	10.95
Manufacturing	620	10.21
Guards	1,489	5.82
Manufacturing	119	9.31
Nonmanufacturing	1,370	5.52
Guards I	1,448	5.68
Manufacturing	93	8.41
Nonmanufacturing	1,355	5.50
Janitors, porters, and cleaners	1,730	7.12
Manufacturing	744	8.74
Material movement and custodial occupations - women		
Material handling laborers	89	5.98
Janitors, porters, and cleaners:		
Manufacturing	81	10.09

See footnotes at end of tables.

Table A-7. Indexes of earnings and percent increases for selected occupational groups, Bergen-Passaic, NJ, selected periods

Period[6]	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes: [6]														
Percent increases:														
September 1987 to September 1988	5.9	4.2	(*)	4.1	4.7	5.6	6.1	(*)	4.4	3.6	6.1	2.6	(*)	5.6

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Bergen-Passaic, NJ, September 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100																								
	Secretaries					Typists		Word processors		Key entry operators		Accounting clerks				Payroll clerks	File clerks		Messengers	Order clerks		Receptionists	Switchboard operators	Switchboard operator-receptionists
	I	II	III	IV	V	I	II	I	II	I	II	I	II	III	IV		I	II		I	II			
Secretaries I	**100**	90	80	73	(*)	126	115	111	107	118	106	121	109	97	77	106	151	(*)	146	(*)	99	95	108	123
Secretaries II	111	**100**	88	76	58	139	119	108	90	135	102	127	115	96	83	103	(*)	141	140	(*)	(*)	108	118	120
Secretaries III	124	116	**100**	87	68	155	130	124	113	144	122	136	131	110	95	113	181	153	167	145	119	122	131	128
Secretaries IV	137	132	115	**100**	79	177	151	142	(*)	160	137	147	147	118	108	125	207	172	(*)	(*)	(*)	(*)	146	151
Secretaries V	(*)	172	148	126	**100**	(*)	204	172	148	193	175	(*)	170	166	129	(*)	(*)	(*)	(*)	(*)	(*)	168	187	161
Typists I	79	72	65	57	(*)	**100**	(*)	83	(*)	97	74	100	88	70	(*)	84	(*)	(*)	(*)	(*)	(*)	(*)	(*)	90
Typists II	87	84	77	66	49	(*)	**100**	(*)	(*)	(*)	91	100	91	77	(*)	87	(*)	113	119	(*)	(*)	(*)	(*)	100
Word processors I	90	93	81	71	56	121	(*)	**100**	**86**	(*)	89	116	102	88	71	94	132	134	132	(*)	(*)	100	105	103
Word processors II	93	111	88	(*)	68	(*)	(*)	117	**100**	136	106	(*)	114	107	93	96	(*)	(*)	129	(*)	(*)	123	117	121
Key entry operators I	84	74	70	62	52	103	(*)	(*)	74	**100**	80	92	87	67	58	77	122	106	103	103	(*)	65	93	87
Key entry operators II	95	98	82	73	57	135	110	113	95	125	**100**	132	112	95	88	94	152	123	121	106	85	(*)	(*)	105
Accounting clerks I	83	79	74	68	(*)	100	100	86	(*)	109	76	**100**	87	76	66	88	(*)	119	109	(*)	(*)	68	91	90
Accounting clerks II	92	87	76	68	59	114	110	98	86	115	89	115	**100**	79	62	87	137	127	125	104	91	95	107	105
Accounting clerks III	103	105	91	85	60	143	130	114	94	150	105	132	126	**100**	(*)	98	148	151	134	121	102	108	122	122
Accounting clerks IV	130	120	105	93	78	(*)	(*)	141	106	177	113	151	160	(*)	**100**	113	(*)	(*)	(*)	(*)	(*)	118	135	135
Payroll clerks	94	97	89	80	(*)	120	114	107	104	129	106	114	115	102	89	**100**	152	138	131	119	101	81	117	113
File clerks I	66	(*)	55	48	(*)	(*)	(*)	76	(*)	82	66	(*)	73	68	(*)	66	**100**	(*)	(*)	(*)	(*)	(*)	(*)	76
File clerks II	(*)	71	65	56	(*)	(*)	89	74	(*)	95	81	84	79	66	(*)	73	(*)	**100**	101	92	(*)	(*)	(*)	86
Messengers	68	71	60	(*)	(*)	(*)	84	76	77	97	83	92	80	75	(*)	77	(*)	99	**100**	(*)	(*)	(*)	77	86
Order clerks I	(*)	(*)	69	(*)	(*)	(*)	(*)	(*)	(*)	97	94	(*)	96	83	(*)	84	(*)	108	(*)	**100**	86	(*)	(*)	98
Order clerks II	101	(*)	84	(*)	(*)	(*)	(*)	(*)	(*)	(*)	118	(*)	110	98	(*)	99	(*)	(*)	(*)	116	**100**	(*)	(*)	136
Receptionists	105	93	82	(*)	60	(*)	(*)	100	81	154	(*)	146	106	93	85	123	(*)	(*)	(*)	(*)	(*)	**100**	114	(*)
Switchboard operators	93	85	76	68	53	(*)	(*)	95	85	107	(*)	110	94	82	74	85	(*)	(*)	129	(*)	(*)	87	**100**	92
Switchboard operator-receptionists	81	84	78	66	62	111	100	97	83	115	95	111	95	82	74	89	131	117	116	102	73	(*)	109	**100**

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table stub are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries II row, the 111 in the Secretaries I column indicates that Secretaries II average 111 percent of (or 11 percent more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-9. Pay relationships in establishments with paired professional and technical occupations, Bergen-Passaic, NJ, September 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100														
	Computer systems analysts				Computer programmers				Computer operators				Drafters		Electronics technicians
	I	II	III	IV	I	II	III	IV	I	II	III	IV	III	IV	II
Computer systems analysts I	**100**	86	74	(*)	129	102	(*)	(*)	186	165	121	(*)	(*)	(*)	(*)
Computer systems analysts II	116	**100**	84	72	155	127	115	95	194	198	144	121	(*)	(*)	(*)
Computer systems analysts III	135	119	**100**	85	177	150	140	115	216	234	173	173	(*)	(*)	191
Computer systems analysts IV	(*)	139	118	**100**	(*)	178	163	(*)	(*)	(*)	189	171	(*)	(*)	(*)
Computer programmers I	79	65	56	(*)	**100**	80	71	49	120	133	93	(*)	(*)	(*)	(*)
Computer programmers II	98	79	67	56	126	**100**	85	70	168	152	114	(*)	(*)	110	(*)
Computer programmers III	(*)	87	72	62	140	118	**100**	76	(*)	174	132	119	(*)	(*)	147
Computer programmers IV	(*)	105	97	(*)	204	143	132	**100**	268	196	162	(*)	(*)	(*)	(*)
Computer operators I	54	51	46	(*)	83	60	(*)	37	**100**	86	71	(*)	(*)	(*)	(*)
Computer operators II	61	51	43	(*)	75	66	57	51	117	**100**	75	74	(*)	73	91
Computer operators III	83	69	58	53	108	88	76	62	141	133	**100**	82	87	(*)	(*)
Computer operators IV	(*)	82	58	58	(*)	(*)	84	(*)	(*)	134	121	**100**	(*)	(*)	(*)
Drafters III	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	115	(*)	**100**	(*)	(*)
Drafters IV	(*)	(*)	(*)	(*)	(*)	91	(*)	(*)	(*)	136	(*)	(*)	(*)	**100**	(*)
Electronics technicians II	(*)	(*)	52	(*)	(*)	(*)	68	(*)	(*)	110	(*)	(*)	(*)	(*)	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.

Also see footnotes at end of tables.

Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Bergen-Passaic, NJ, September 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100							
	Electricians	Machinists	Maintenance mechanics (machinery)	Motor vehicle mechanics	Maintenance workers (general)	Trades helpers	Tool and die makers	Stationary engineers
Maintenance electricians	**100**	99	105	(*)	129	(*)	94	99
Maintenance machinists	101	**100**	111	(*)	122	(*)	93	(*)
Maintenance mechanics (machinery)	95	90	**100**	104	119	137	83	(*)
Motor vehicle mechanics	(*)	(*)	96	**100**	122	(*)	(*)	(*)
General maintenance workers	78	82	84	82	**100**	(*)	(*)	100
Maintenance trades helpers	(*)	(*)	73	(*)	(*)	**100**	(*)	(*)
Tool and die makers	106	108	121	(*)	(*)	(*)	**100**	(*)
Stationary engineers	101	(*)	(*)	(*)	100	(*)	(*)	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Bergen-Passaic, NJ, September 1988

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Truckdrivers				Shippers	Receivers	Shippers and receivers	Warehouse-men	Order fillers	Shipping packers	Material handling laborers	Forklift operators	Guards	Janitors, porters, and cleaners
	Light truck	Medium truck	Heavy truck	Tractor-trailer									I	
Truckdrivers, light truck	**100**	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	108	(*)	(*)	(*)
Truckdrivers, medium truck	(*)	**100**	(*)	(*)	103	94	109	109	(*)	(*)	(*)	102	(*)	(*)
Truckdrivers, heavy truck	(*)	(*)	**100**	96	(*)	(*)	(*)	(*)	(*)	(*)	112	116	(*)	122
Truckdrivers, tractor-trailer	(*)	(*)	104	**100**	(*)	(*)	(*)	(*)	(*)	(*)	122	97	(*)	120
Shippers	(*)	97	(*)	(*)	**100**	102	(*)	(*)	127	(*)	89	100	(*)	111
Receivers	(*)	106	(*)	(*)	98	**100**	117	103	114	109	172	116	(*)	118
Shippers and receivers	(*)	91	(*)	(*)	(*)	85	**100**	122	(*)	(*)	106	102	(*)	114
Warehousemen	(*)	92	(*)	(*)	(*)	97	82	**100**	(*)	(*)	(*)	91	(*)	(*)
Order fillers	(*)	(*)	(*)	(*)	79	87	(*)	(*)	**100**	(*)	99	87	(*)	99
Shipping packers	(*)	(*)	(*)	(*)	(*)	92	(*)	(*)	(*)	**100**	99	94	119	99
Material handling laborers	93	(*)	(*)	89	82	112	58	94	(*)	101	**100**	**100**	123	107
Forklift operators	(*)	90	99	87	103	100	86	98	110	115	106	81	**100**	117
Guards I	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	84	93	86	**100**
Janitors, porters, and cleaners	(*)	90	(*)	82	83	90	85	88	(*)	101	101			

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[3]	Middle range[3]	Under 210	210 and under 220	220 – 230	230 – 240	240 – 250	250 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 520	520 – 540	540 and over
Secretarial and keyboarding occupations																										
Secretaries	1,844	37.0	417.00	404.00	365.50– 459.50	–	–	–	1	1	–	7	20	37	146	173	248	249	215	142	150	116	121	76	41	101
Manufacturing	857	37.0	423.00	399.50	364.00– 470.00	–	–	–	–	–	–	–	12	16	60	100	120	127	70	55	50	66	38	40	23	80
Nonmanufacturing	987	37.0	412.00	405.50	366.00– 453.50	–	–	–	1	1	–	7	8	21	86	73	128	122	145	87	100	50	83	36	18	21
Secretaries I	223	36.5	349.50	346.00	326.00– 368.00	–	–	–	–	–	–	–	9	20	60	53	34	33	11	1	2	–	–	–	–	–
Secretaries II	227	37.5	370.00	356.00	327.50– 404.00	–	–	–	1	1	–	7	11	12	38	46	22	30	18	13	18	1	3	4	–	2
Manufacturing	56	38.5	390.50	379.00	345.50– 442.50	–	–	–	–	–	–	–	5	–	5	12	6	8	5	1	6	–	2	4	–	2
Nonmanufacturing	171	37.5	363.00	353.50	326.50– 397.50	–	–	–	1	1	–	7	6	12	33	34	16	22	13	12	12	1	1	–	–	–
Secretaries III	844	37.0	410.00	395.50	369.00– 445.50	–	–	–	–	–	–	–	–	5	47	71	176	142	120	62	58	61	43	26	11	22
Manufacturing	344	37.0	416.50	393.50	367.00– 461.50	–	–	–	–	–	–	–	–	4	7	38	76	62	25	24	16	34	12	20	8	18
Nonmanufacturing	500	37.0	405.50	398.00	369.50– 437.50	–	–	–	–	–	–	–	–	1	40	33	100	80	95	38	42	27	31	6	3	4
Secretaries IV	449	36.5	454.00	450.00	415.50– 486.00	–	–	–	–	–	–	–	–	–	–	3	16	44	63	62	67	46	73	37	18	20
Nonmanufacturing	255	36.5	454.50	458.00	420.00– 488.50	–	–	–	–	–	–	–	–	–	–	2	7	17	35	35	42	22	51	27	13	4
Secretaries V	100	37.0	572.00	567.00	512.00– 632.50	–	–	–	–	–	–	–	–	–	–	–	–	–	3	4	5	8	2	9	12	* 57
Manufacturing	76	36.0	578.50	564.00	512.50– 634.00	–	–	–	–	–	–	–	–	–	–	–	–	–	2	3	1	8	2	6	10	44
Typists	88	38.0	284.00	281.50	247.50– 328.00	4	3	3	6	7	7	11	15	10	13	6	2	1	–	–	–	–	–	–	–	–
Nonmanufacturing	69	38.0	277.00	275.00	241.50– 305.50	4	3	3	5	7	6	10	9	7	12	2	–	1	–	–	–	–	–	–	–	–
Word processors	68	37.5	356.50	347.50	331.50– 377.00	–	–	–	–	1	–	–	6	3	16	14	15	5	–	2	2	2	2	–	–	–
Key entry operators	302	38.0	336.50	330.00	290.00– 349.00	4	2	8	1	6	12	20	29	35	65	55	4	6	11	16	8	8	4	6	2	–
Nonmanufacturing	258	38.5	341.00	331.00	302.00– 356.00	4	2	8	1	6	9	16	17	23	57	54	4	4	9	16	8	8	4	6	2	–
Key entry operators I	136	38.5	300.00	297.50	261.00– 343.50	4	2	8	1	5	10	17	23	15	14	27	1	2	7	–	–	–	–	–	–	–
Nonmanufacturing	113	39.0	302.50	302.00	261.00– 348.50	4	2	8	1	5	7	13	12	11	14	26	1	2	7	–	–	–	–	–	–	–
Key entry operators II	166	38.0	366.00	339.00	329.00– 432.00	–	–	–	–	1	2	3	6	20	51	28	3	4	4	16	8	8	4	6	2	–
Nonmanufacturing	145	38.0	371.00	343.00	330.00– 438.00	–	–	–	–	1	2	3	5	12	43	28	3	2	2	16	8	8	4	6	2	–
Other clerical occupations																										
Accounting clerks	823	38.0	381.00	375.00	318.50– 460.00	46	–	9	4	5	5	27	46	78	68	76	64	45	32	34	89	94	22	68	4	9
Manufacturing	174	36.5	346.00	331.00	295.50– 374.50	–	–	–	2	4	2	11	25	29	18	20	25	13	3	3	5	3	4	4	–	3
Nonmanufacturing	649	38.0	390.50	400.50	323.00– 460.50	46	–	9	2	1	3	16	21	49	50	56	39	32	29	31	84	91	18	62	4	6
Accounting clerks I	126	37.0	327.50	323.00	300.00– 352.50	–	–	1	2	3	–	12	12	23	34	13	10	2	10	2	–	–	2	–	–	–
Nonmanufacturing	111	37.0	334.00	325.00	308.00– 355.00	–	–	1	–	1	–	11	6	19	34	13	10	2	10	2	–	–	2	–	–	–
Accounting clerks II	292	37.0	315.50	318.50	283.50– 361.00	* * 46	–	–	–	2	5	14	33	51	26	35	35	21	13	11	–	–	–	–	–	–
Manufacturing	92	36.5	317.00	312.50	290.00– 352.50	–	–	–	–	2	2	10	18	22	14	5	11	7	1	–	–	–	–	–	–	–
Nonmanufacturing	200	37.5	314.50	331.50	286.50– 366.50	46	–	–	–	–	3	4	15	29	12	30	24	14	12	11	–	–	–	–	–	–
Accounting clerks III	285	38.5	424.00	459.50	387.50– 480.50	–	–	8	2	–	–	1	1	4	8	23	17	20	9	17	80	83	6	6	–	–
Manufacturing	51	36.5	372.00	370.00	345.00– 394.50	–	–	–	–	–	–	–	1	3	4	15	12	6	2	3	2	3	–	–	–	–
Accounting clerks IV	120	39.0	495.50	515.00	472.50– 515.00	–	–	–	–	–	–	–	–	–	–	5	2	2	–	4	9	11	14	60	4	9
Payroll clerks	96	37.0	375.50	374.00	335.00– 408.50	–	–	–	–	–	–	10	–	5	12	14	19	12	2	6	6	3	2	3	–	2
Nonmanufacturing	64	37.5	375.00	375.00	350.50– 394.50	–	–	–	–	–	–	6	–	2	6	9	15	12	–	6	4	–	2	2	–	–

See footnotes at end of tables.

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[3]	Median[3]	Middle range[3]	Under 210	210 and under 220	220 – 230	230 – 240	240 – 250	250 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 500	500 – 520	520 – 540	540 and over
File clerks	65	38.5	280.50	283.00	254.00– 302.00	–	1	5	1	6	8	11	18	9	4	2	–	2	–	–	–	–	–	–	–	–
Messengers	58	37.0	241.00	239.50	230.00– 251.50	–	7	4	18	4	19	6	–	–	–	–	–	–	–	–	–	–	–	–	–	–

* Workers were distributed as follows: 6 at $540 to $560; 8 at $560 to $580; 5 at $580 to $600; 5 at $600 to $620; 13 at $620 to $640; 3 at $640 to $660; 1 at $660 to $680; 9 at $680 to $700; and 7 at $720 and over.

* * All workers were at $200 to $210.

Also see footnotes at end of tables.

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[3]	Median[3]	Middle range[3]	Under 300	300 and under 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 460	460 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 840	840 – 880	880 and over
Computer systems analysts	545	38.0	819.50	806.50	697.00– 921.50	–	–	–	–	–	–	–	–	1	–	5	19	15	14	54	52	43	63	50	47	* 182
Manufacturing	171	38.0	913.00	915.00	785.00–1023.00	–	–	–	–	–	–	–	–	–	–	–	–	–	5	8	12	12	9	16	9	100
Nonmanufacturing	374	38.0	777.00	773.00	679.00– 859.50	–	–	–	–	–	–	–	–	1	–	5	19	15	9	46	40	31	54	34	38	82
Computer systems analysts II	162	38.0	706.00	692.50	671.00– 746.00	–	–	–	–	–	–	–	–	–	–	–	7	2	7	44	45	26	15	9	3	4
Nonmanufacturing	136	38.5	695.00	687.00	667.00– 731.00	–	–	–	–	–	–	–	–	–	–	–	7	2	6	40	40	21	10	9	1	–
Computer systems analysts III	237	37.0	886.50	871.00	788.00– 967.00	–	–	–	–	–	–	–	–	–	–	–	–	–	2	2	5	13	46	34	22	113
Manufacturing	90	37.5	910.00	915.00	825.50– 986.50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	5	3	4	15	6	55
Nonmanufacturing	147	37.0	872.00	842.50	778.50– 950.50	–	–	–	–	–	–	–	–	–	–	–	–	–	2	–	–	10	42	19	16	58
Computer systems analysts IV	96	40.0	966.00	916.00	859.50–1047.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2	7	22	65
Computer programmers	426	38.5	623.00	615.50	538.50– 695.00	–	–	2	1	–	1	4	11	19	7	40	42	60	65	46	38	35	17	23	6	9
Manufacturing	238	38.5	668.00	660.50	586.50– 741.00	–	–	–	–	–	1	2	3	–	3	14	17	27	34	30	27	30	17	18	6	9
Computer programmers II	122	38.0	573.50	571.00	527.00– 614.50	–	–	–	–	–	1	1	3	1	2	19	30	27	16	10	9	3	–	–	–	–
Manufacturing	72	37.5	600.50	614.50	548.00– 653.00	–	–	–	–	–	1	–	–	–	2	10	9	13	15	10	9	3	–	–	–	–
Computer programmers III	160	38.0	690.00	670.50	605.00– 772.00	–	–	–	–	–	–	–	2	–	–	5	5	26	28	16	12	19	14	18	6	9
Manufacturing	81	38.0	736.00	764.50	623.00– 825.50	–	–	–	–	–	–	–	1	–	–	3	3	12	2	2	2	14	14	13	6	* * 9
Nonmanufacturing	79	38.0	643.00	632.50	605.00– 684.00	–	–	–	–	–	–	–	1	–	–	2	2	14	26	14	10	5	–	5	–	–
Computer operators	298	38.0	461.50	448.00	375.00– 530.50	7	13	17	14	28	19	21	23	14	33	24	32	25	3	10	7	2	–	4	–	2
Manufacturing	93	37.5	424.50	429.00	362.00– 471.00	4	9	3	2	12	8	4	10	8	17	7	2	3	1	2	1	–	–	–	–	–
Nonmanufacturing	205	38.0	478.00	465.00	380.50– 547.50	3	4	14	12	16	11	17	13	6	16	17	30	22	2	8	6	2	–	4	–	2
Computer operators II	115	38.0	410.50	390.00	350.00– 471.00	4	10	12	3	19	10	16	4	7	6	6	16	2	–	–	–	–	–	–	–	–
Nonmanufacturing	73	38.0	425.50	412.50	361.00– 497.50	–	3	11	3	11	5	12	2	2	2	4	16	2	–	–	–	–	–	–	–	–
Computer operators III	117	38.0	493.50	470.00	415.50– 526.50	–	–	1	9	8	9	5	12	5	15	15	15	1	2	8	6	2	–	4	–	–
Nonmanufacturing	91	38.0	508.50	495.50	415.50– 548.50	–	–	1	9	4	6	5	4	4	9	13	14	–	2	8	6	2	–	4	–	–
Computer operators IV	51	39.0	541.00	568.50	462.00– 568.50	–	–	–	–	–	–	–	5	2	12	3	1	22	1	2	1	–	–	–	–	2
Electronics technicians	346	38.5	563.00	527.50	527.50– 678.50	–	5	10	–	–	6	10	5	6	10	26	123	18	11	116	–	–	–	–	–	–
Electronics technicians II	309	39.0	577.50	527.50	527.50– 678.50	–	–	–	–	–	5	5	5	5	10	20	122	18	6	113	–	–	–	–	–	–

* Workers were distributed as follows: 44 at $880 to $920; 32 at $920 to $960; 28 at $960 to $1,000; 20 at $1,000 to $1,040; 22 at $1,040 to $1,080; and 36 at $1,080 and over.

* * Workers were distributed as follows: 5 at $880 to $920; and 4 at $920 to $960.

Also see footnotes at end of tables.

Table A-14. Average weekly earnings of office, professional, and technical workers, by sex in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[2]
Office occupations – women			
Secretaries	1,743	37.0	414.50
Manufacturing	856	36.5	423.00
Nonmanufacturing	887	37.0	406.00
Secretaries I	223	36.5	349.50
Secretaries II	211	37.5	371.00
Manufacturing	56	38.5	390.50
Nonmanufacturing	155	37.0	363.50
Secretaries III	791	37.0	407.00
Manufacturing	344	37.0	416.50
Nonmanufacturing	447	37.0	399.50
Secretaries IV	435	36.5	452.50
Nonmanufacturing	241	36.0	452.00
Secretaries V	83	36.0	570.00
Manufacturing	75	36.0	580.00
Typists	86	38.0	282.50
Nonmanufacturing	67	37.5	275.50
Word processors	55	37.0	353.00
Key entry operators	273	38.0	339.00
Nonmanufacturing	230	38.5	344.50
Key entry operators I	112	38.5	298.50
Nonmanufacturing	90	39.0	301.50
Key entry operators II	161	38.0	367.50
Nonmanufacturing	140	38.0	372.50
Accounting clerks	673	37.5	385.00
Manufacturing	158	36.5	346.00
Nonmanufacturing	515	38.0	397.00
Accounting clerks I	117	37.0	331.00
Nonmanufacturing	102	37.0	339.00
Accounting clerks II	241	37.0	325.50
Manufacturing	84	36.5	316.50
Nonmanufacturing	157	37.0	330.00
Accounting clerks III	217	38.5	429.00
Accounting clerks IV	98	38.5	498.00
Payroll clerks	88	37.0	378.50
Nonmanufacturing	58	38.0	383.50
File clerks	59	38.5	279.00
Professional and technical occupations – men			
Computer systems analysts	379	38.0	838.50
Manufacturing	139	38.0	924.50
Nonmanufacturing	240	37.5	788.50
Computer systems analysts II	104	38.0	725.00
Nonmanufacturing	82	38.5	712.00
Computer systems analysts III	180	37.0	893.50
Manufacturing	69	37.5	923.00
Nonmanufacturing	111	37.0	875.50
Computer programmers	246	38.5	613.50
Manufacturing	139	38.5	664.50
Computer programmers II	71	38.0	578.00
Computer programmers III	86	38.5	692.00
Computer operators	226	38.0	466.50
Manufacturing	67	37.0	417.50
Nonmanufacturing	159	38.0	487.00
Computer operators II	90	38.0	413.00
Nonmanufacturing	58	38.5	424.50
Computer operators III	92	37.5	504.50
Nonmanufacturing	68	38.0	525.50
Electronics technicians	320	38.5	556.50
Electronics technicians II	283	38.5	571.50
Professional and technical occupations – women			
Computer systems analysts	153	38.0	770.50
Nonmanufacturing	121	38.0	746.00
Computer systems analysts II	56	38.5	674.50
Computer programmers	159	38.5	635.50
Manufacturing	87	39.0	657.50

See footnotes at end of tables.

Table A-15. Hourly earnings of maintenance, toolroom, and powerplant workers in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[3]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[3]	Median[3]	Middle range[3]	Under 11.75	11.75 and under 12.00	12.00 – 12.25	12.25 – 12.50	12.50 – 12.75	12.75 – 13.00	13.00 – 13.25	13.25 – 13.50	13.50 – 13.75	13.75 – 14.00	14.00 – 14.25	14.25 – 14.50	14.50 – 14.75	14.75 – 15.00	15.00 – 15.25	15.25 – 15.50	15.50 – 15.75	15.75 – 16.00	16.00 – 16.25	16.25 – 16.50	16.50 – 16.75	16.75 – 17.00	17.00 and over
Maintenance electricians	64	13.43	13.22	12.48–14.16	2	6	2	10	–	–	20	–	–	–	11	4	1	–	–	–	8	–	–	–	–	–	–
Manufacturing	64	13.43	13.22	12.48–14.16	2	6	2	10	–	–	20	–	–	–	11	4	1	–	–	–	8	–	–	–	–	–	–
Motor vehicle mechanics	103	14.74	13.82	13.66–16.71	–	–	–	–	–	–	22	–	26	12	–	2	1	2	1	3	2	–	–	1	16	–	* 15
General maintenance workers	64	12.22	12.66	11.57–14.50	* * 31	–	–	–	9	1	1	–	4	1	–	1	6	–	6	2	2	–	–	–	–	–	–
Stationary engineers	71	15.88	15.28	13.70–20.54	# 8	1	1	4	1	2	–	–	4	–	11	–	1	–	2	2	1	2	1	–	–	12	# # 18

* All workers were at $17.00 to $17.25.

* * Workers were distributed as follows: 6 under $8.50; 2 at $8.50 to $8.75; 5 at $9.00 to $9.25; 1 at $9.75 to $10.00; 1 at $10.00 to $10.25; and 16 at $11.50 to $11.75.

\# Workers were distributed as follows: 3 at $10.50 to $10.75; 4 at $11.00 to $11.25; and 1 at $11.50 to $11.75.

\# \# Workers were distributed as follows: 12 at $20.50 to $20.75; 2 at $21.00 to $21.25; 2 at $21.25 to $21.50; and 2 at $21.75 to $22.00.

Also see footnotes at end of tables.

Table A-16. Hourly earnings of material movement and custodial workers in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[3]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[3]	Median[3]	Middle range[3]	Under 7.25	7.25 and under 7.50	7.50 – 7.75	7.75 – 8.00	8.00 – 8.25	8.25 – 8.50	8.50 – 8.75	8.75 – 9.00	9.00 – 9.25	9.25 – 9.50	9.50 – 9.75	9.75 – 10.00	10.00 – 10.25	10.25 – 10.50	10.50 – 10.75	10.75 – 11.00	11.00 – 11.25	11.25 – 11.50	11.50 – 11.75	11.75 – 12.00	12.00 – 12.25	12.25 – 12.50	12.50 and over
Truckdrivers	106	13.44	13.08	11.96–15.81	1	–	–	–	–	–	–	–	–	2	–	–	6	–	8	–	–	2	–	32	–	–	* 55
Manufacturing	100	13.54	13.26	11.96–15.81	1	–	–	–	–	–	–	–	–	–	–	–	6	–	8	–	–	–	–	32	–	–	53
Warehousemen	73	11.31	10.33	10.15–13.33	6	–	–	2	–	–	–	2	3	–	–	2	20	2	2	–	2	–	6	–	–	–	* * 26
Manufacturing	51	11.00	10.15	10.15–11.70	3	–	–	–	–	–	–	2	2	–	–	2	20	2	2	–	2	–	6	–	–	–	10
Forklift operators	234	10.67	9.67	9.22–12.23	–	–	–	–	36	–	–	6	28	–	62	–	–	–	–	–	–	–	–	–	84	–	18
Manufacturing	234	10.67	9.67	9.22–12.23	–	–	–	–	36	–	–	6	28	–	62	–	–	–	–	–	–	–	–	–	84	–	18
Guards:																											
Manufacturing	75	8.56	7.91	7.91– 9.25	–	8	–	38	2	2	5	3	–	1	4	6	2	2	1	1	1	–	–	–	–	–	1
Guards I:																											
Manufacturing	75	8.56	7.91	7.91– 9.25	–	8	–	38	2	2	5	3	–	1	4	6	2	2	1	1	1	–	–	–	–	–	1
Janitors, porters, and cleaners:																											
Manufacturing	183	9.97	9.61	8.78–11.75	# 21	–	–	2	7	2	–	35	–	–	26	–	–	–	–	–	–	–	–	82	–	–	8

* Workers were distributed as follows: 3 at $13.00 to $13.25; 1 at $13.25 to $13.50; 1 at $13.50 to $13.75; 1 at $13.75 to $14.00; 2 at $14.25 to $14.50; 1 at $14.50 to $14.75; 2 at $14.75 to $15.00; 2 at $15.00 to $15.25; 4 at $15.25 to $15.50; 1 at $15.50 to $15.75; 30 at $15.75 to $16.00; and 7 at $16.25 to $16.50.

* * Workers were distributed as follows: 1 at $12.50 to $12.75; 9 at $13.25 to $13.50; 4 at $14.25 to $14.50; 10 at $14.75 to $15.00; and 2 at $15.50 to $15.75.

Workers were distributed as follows: 11 under $4.75; 2 at $5.00 to $5.25; 2 at $5.25 to $5.50; 4 at $5.50 to $5.75; and 2 at $5.75 to $6.00.

Also see footnotes at end of tables.

Table A-17. Average hourly earnings of maintenance, toolroom, powerplant, material movement and custodial workers by sex in establishments employing 500 workers or more in Bergen-Passaic, NJ, September 1988

Sex,[4] occupation, and industry division	Number of workers	Average (mean[2]) hourly earnings (in dollars)[3]	Sex,[4] occupation, and industry division	Number of workers	Average (mean[2]) hourly earnings (in dollars)[3]
Maintenance, toolroom, and powerplant occupations - men			Warehousemen:		
			Manufacturing	51	11.00
Maintenance electricians	64	13.43	Forklift operators	228	10.71
Manufacturing	64	13.43	Manufacturing	228	10.71
General maintenance workers	58	11.90	Guards:		
			Manufacturing	72	8.56
Stationary engineers	65	15.97			
Material movement and custodial occupations - men			Guards I:		
			Manufacturing	72	8.56
Truckdrivers	104	13.41	Janitors, porters, and cleaners:		
Manufacturing	100	13.54	Manufacturing	114	9.72

See footnotes at end of tables.

Footnotes

Some of these standard footnotes may not apply to this bulletin.

[1] Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

[2] Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses, and incentive payments, however, are included.

[3] The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—one-half of the workers receive the same as or more and one-half receive the same as or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same as or less than the lower of these rates and one-fourth earn the same as or more than the higher rate.

[4] Earnings data relate only to workers whose sex identification was provided by the establishment.

[5] Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

[6] Data do not meet publication criteria or data not available.

Appendix A. Scope and Method of Survey

In January 1987, the Bureau began to phase in a new 90-area program to replace the 70-area program that had produced annual surveys since July 1974. When the new plan is fully implemented in 1990, 32 of the areas will be surveyed annually, and two groups of 29 areas will be surveyed in alternate years. (For a full discussion of the change, see Laura Scofea, "BLS Area Wage Surveys Will Cover More Areas," *Monthly Labor Review*, June 1986, pp. 19-23.)

In each area surveyed,[1] the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

In the 32 areas surveyed annually, Bureau field representatives obtain data by personal visits at 3-year intervals. In intervening years, only information on employment and occupational earnings is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

In the two groups of 29 areas that are surveyed in alternate years, Bureau field representatives obtain data for a given area by personal visits if the previous data for the area were obtained primarily by mail and telephone. Thus, in a 4-year period, an area that was surveyed by personal visit the first year will have no survey in the second, a mail and telephone survey in the third, and none in the fourth. As with annual surveys, information on establishment practices and employee benefits is presented only for surveys conducted by personal visits; when information is collected primarily by mail and telephone, only information on employment and earnings is presented.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained until the next personal visit survey is conducted. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification by industry and number of employees of all establishments within the scope of a survey. From this stratified universe, a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. If data are not available for an establishment originally selected, the weights of other similar establishments are increased to account for the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B, along with corresponding occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual*.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is a possibility of disclosure of individual establishment data. Earnings data not shown separately for industry divisions are included in data for all industries combined.

Separate data for men and women are not presented when the number of workers not identified by sex is 20 percent or more of the men or women identified in an occupation. Likewise, data are not presented for an occupational level when the number of workers not identified by level is 20 percent or more of the number identified at that level. Data are included in estimates for men and women combined or an overall occupation when sex or level identification is not available.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses, and incentive payments, however, are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Some A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increased wages since the last survey. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the jobs listed below in both the current and previous year (matched establishments). The data are adjusted to remove the effect on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers I and II
Typists I and II
Key entry operators I and II
Accounting clerks I, II, III, and IV
Payroll clerks
File clerks I, II, and III
Messengers
Order clerks I and II
Switchboard operators

Electronic data processing

Computer systems analysts I, II, III, and IV
Computer programmers I, II, III, and IV
Computer operators I, II, III, and IV

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters
Electricians
Painters
Machinists
Mechanics (machinery)
Pipefitters
Motor vehicle mechanics
Tool and die makers

Unskilled plant

Janitors, porters, and cleaners
Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Each occupation is assigned a weight based on its proportion of employment in the occupational group in the earlier of the two years being compared. If for example, 1,000 workers were reported in the skilled maintenance group in the earlier year and 200 of these workers were painters, the weight assigned to painters would be 0.20. Using a constant employment weight dampens the effects of employment shifts on wage change measures.

2. Average earnings are computed for each occupation for the 2 years being compared. Earnings are used only from matched establishments; that is, establishments that are in the survey both years.
3. Group averages are computed by multiplying the weight of each occupation (step 1) by the occupation's average earnings for each year (step 2). The products are totaled to obtain group averages.
4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), differ from comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences. The following procedures are used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.
2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.
3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and employee benefits

Tabulations on selected establishment practices and employee benefits (B-series tables) are not presented in this bulletin. In this area, information for these tabulations is collected at 3-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift differentials; scheduled weekly hours and days; paid holidays; paid vacations; insurance, health, and retirement plans; and other selected benefits are presented (in the B-series tables) in a previous bulletin for this area.

[1]The Bureau also conducts more limited area studies in over 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Appendix table 1. Establishments and workers within scope of survey and number studied in Bergen-Passaic, NJ,[1] September 1988

Industry division[2]	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments		
		Within scope of survey[3]	Studied	Within scope of survey[4]		Studied
				Number	Percent	
All establishments						
All divisions	–	1,372	199	238,962	100	77,850
Manufacturing	50	635	82	105,055	44	30,163
Nonmanufacturing	–	737	117	133,907	56	47,687
Transportation, communication, and other public utilities[5]	50	68	26	15,432	6	9,937
Wholesale trade[6]	50	212	13	27,931	12	2,893
Retail trade[6]	50	201	23	47,362	20	16,919
Finance, insurance, and real estate[6]	50	77	17	17,737	7	9,021
Services[6 7]	50	179	38	25,445	11	8,917
Large establishments						
All divisions	–	77	46	84,220	100	54,997
Manufacturing	500	25	15	30,615	36	19,867
Nonmanufacturing	–	52	31	53,605	64	35,130
Transportation, communication, and other public utilities[5]	500	8	6	8,730	10	7,012
Wholesale trade[6]	500	11	2	7,360	9	1,335
Retail trade[6]	500	16	10	22,499	27	14,576
Finance, insurance, and real estate[6]	500	7	6	8,491	10	7,232
Services[6 7]	500	10	7	6,525	8	4,975

[1] The Bergen-Passaic, NJ Primary Metropolitan Statistical Area, as defined by the Office of Management and Budget through October 1984, consists of Bergen and Passaic Counties. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

[2] The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

[3] Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

[4] Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

[5] Abbreviated to "transportation and utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded.

[6] Separate data for this division are not presented in the A-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

[7] Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

The titles and numerical codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual* (SOC), issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. The BLS occupation, "Registered Industrial Nurse," for example, is limited to workers providing medical assistance and other related services (e.g., health education) to persons who are ill or become ill or suffer an injury in a factory or other establishment. The SOC occupation (code 29) includes a variety of registered nurses (e.g., school nurse, head nurse, general duty nurse, private duty nurse) that are excluded from the BLS description.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

Office

SECRETARY

(4622: Secretary)

Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

a. Clerks or secretaries working under the direction of secretaries or administrative assistants as described in e;
b. Stenographers not fully performing secretarial duties;
c. Stenographers or secretaries assigned to two or more professional, technical, or managerial persons of equivalent rank;
d. Assistants or secretaries performing any kind of technical work, e.g., personnel, accounting, or legal work;
e. Administrative assistants or supervisors performing duties which are more difficult or more responsible than the secretarial work described in LR-1 through LR-4;
f. Secretaries receiving additional pay primarily for maintaining confidentiality of payroll records or other sensitive information;
g. Secretaries performing routine receptionist, typing, and filing duties following detailed instructions and guidelines; these duties are less responsible than those described in LR-1 below;
h. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to two factors: (a) Level of the secretary's supervisor within the overall organizational structure, and (b) level of the secretary's responsibility. The table following the explanations of these factors indicates the level of the secretary for each combination of factors.

Level of Secretary's Supervisor (LS)

Secretaries should be matched at one of the three LS levels below best describing the organization of the secretary's supervisor.

LS-1

Organizational structure is not complex and internal procedures and administrative controls are simple and informal; supervisor directs staff through face-to-face meetings.

LS-2

Organizational structure is complex and is divided into subordinate groups that usually differ from each other as to subject matter, function, etc.; supervisor usually directs staff through intermediate supervisors; internal procedures and administrative controls are formal. An entire organization (e.g., division, subsidiary, or parent organization) may contain a variety of subordinate groups which meet the LS-2 definition. Therefore, it is not unusual for one LS-2 supervisor to report to another LS-2 supervisor.

The presence of subordinate supervisors does not by itself mean LS-2 applies, e.g., a clerical processing organization divided into several units, each performing very similar work, is placed in LS-1.

In smaller organizations or industries such as retail trade, with relatively few organizational levels, the supervisor may have an impact on the policies and major programs of the entire organization, and may deal with important outside contacts, as described in LS-3.

LS-3

Organizational structure is divided into two or more subordinate supervisory levels (of which at least one is a managerial level) with several subdivisions at each level. Executive's program(s) are usually interlocked on a direct and continuing basis with other major organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls. Executive typically has: Financial decisionmaking authority for assigned program(s); considerable impact on the entire organization's financial position or image; and responsibility for, or has staff specialists in, such areas as personnel and administration for assigned organization. Executive plays an important role in determining the policies and major programs of the entire organization, and spends considerable time dealing with outside parties actively interested in assigned program(s) and current or controversial issues.

Level of Secretary's Responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor or staff, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at the level best describing their level of responsibility. When a position's duties span more than one LR level, the introductory paragraph at the beginning of each LR level should be used to determine which of the levels best matches the position. (Typically, secretaries performing at the higher levels of responsibility also perform duties described at the lower levels.)

LR-1

Carries out recurring office procedures independently. Selects the guideline or reference which fits the specific case. Supervisor provides specific instructions on new assignments and checks completed work for accuracy. Performs varied duties including or comparable to the following:

a. Responds to routine telephone requests which have standard answers; refers calls and visitors to appropriate staff. Controls mail and assures timely staff response; may send form letters;
b. As instructed, maintains supervisor's calendar, makes appointments, and arranges for meeting rooms;
c. Reviews materials prepared for supervisor's approval for typographical accuracy and proper format;
d. Maintains recurring internal reports, such as: Time and leave records, office equipment listings, correspondence controls, training plans, etc.;
e. Requisitions supplies, printing, maintenance, or other services. Types, takes and transcribes dictation, and establishes and maintains office files.

LR-2

Handles differing situations, problems, and deviations in the work of the office according to the supervisor's general instructions, priorities, duties, policies, and program goals. Supervisor may assist secretary with special assignments. Duties include or are comparable to the following:

a. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member, or other offices. May prepare and sign routine, nontechnical correspondence in own or supervisor's name;
b. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings;
c. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed;
d. Collects information from the files or staff for routine inquiries on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff;
e. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

LR-3

Uses greater judgment and initiative to determine the approach or action to take in nonroutine situations. Interprets and adapts guidelines, including unwritten policies, precedents, and practices, which are not always completely applicable to changing situations. Duties include or are comparable to the following:

a. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval;
b. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc;, and informs supervisor on matters to be considered;
c. Reads publications, regulations, and directives and takes action or refers those that are important to the supervisor and staff;
d. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general direction;
e. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate workload needs.

LR-4

Handles a wide variety of situations and conflicts involving the clerical or administrative functions of the office which often cannot be brought to the attention of the executive. The executive sets the overall objectives of the work. Secretary may participate in developing the work deadlines. Duties include or are comparable to the following:

a. Composes correspondence requiring some understanding of technical matters; may sign for executive when technical or policy content has been authorized;
b. Notes commitments made by executive during meetings and arranges for staff implementation. On own initiative, arranges for staff member to represent organization at conferences and meetings, establishes appointment priorities, or reschedules or refuses appointments or invitations;
c. Reads outgoing correspondence for executive's approval and alerts writers to any conflict with the file or departure from policies or executive's viewpoints; gives advice to resolve the problems;
d. Summarizes the content of incoming materials, specially gathered information, or meetings to assist executive; coordinates the new information with background office sources; draws attention to important parts or conflicts;
e. In the executive's absence, ensures that requests for action or information are relayed to the appropriate staff member; as needed, interprets request and helps implement action; makes sure that information is furnished in timely manner; decides whether executive should be notified of important or emergency matters.

Exclude secretaries performing any of the following duties:

Acts as office manager for the executive's organization, e.g., determines when new procedures are needed for changing situations and devises and implements alternatives; revises or clarifies procedures to eliminate conflict or duplication; identifies and resolves various problems that affect the orderly flow of work in transactions with parties outside the organization.

Prepares agenda for conferences; explains discussion topics to participants; drafts introductions and develops background information and prepares outlines for executive or staff member(s) to use in writing speeches.

Advises individuals outside the organization on the executive's views on major policies or current issues facing the organization; contacts or responds to contacts from high-ranking outside officials (e.g., city or State officials, members of Congress, presidents of national unions or large national or international firms, etc.) in unique situations. These officials may be relatively inaccessible, and each contact typically must be handled differently, using judgment and discretion.

Criteria For Matching Secretaries By Level

Level of Secretary's Supervisor	Level of Secretary's Responsibility			
	LR-1	LR-2	LR-3	LR-4
LS-1	I	II	III	IV
LS-2	I	III	IV	V
LS-3	I	IV	V	V

STENOGRAPHER

(4623: Stenographer)

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings.

Excluded from this definition are:

a. Trainee positions not requiring a fully qualified stenographer;
b. Secretaries providing the principal secretarial support in an office and performing more responsible and discretionary tasks, as described in LR-l through LR-4 in the secretary definition above;
c. Stenographers who take dictation involving the frequent use of a wide variety of technical or specialized vocabulary. Typically this kind of vocabulary cannot be learned in a relatively short period of time, e.g., a month or two;
d. Stenographers, such as shorthand reporters, who record materia' verbatim at hearings, conferences, or similar proceedings.

Stenographer I

Takes and transcribes dictation, receiving specific assignments along with detailed instructions on such requirements as form and presentation. The transcribed material is typically reviewed in rough draft, and the final transcription is reviewed for conform-

ance with the rough draft. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II

Takes and transcribes dictation determining the most appropriate format. Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I. Supervisor typically provides general instructions. Work requires a thorough working knowledge of general business and office procedures and of the specific business operations, organizations, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; answering routine questions, etc.

TYPIST

(4624: Typist)

Uses a manual, electric, or automatic typewriter to type various materials. Included are automatic typewriters that are used only to record text and update and reproduce previously typed items from magnetic cards or tape. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Excluded from this definition is work that involves:

a. Typing directly from spoken material that has been recorded on disks, cylinders, belts, tapes, or other similar media;
b. The use of varitype machines, composing equipment, or automatic equipment in preparing material for printing; and
c. Familiarity with specialized terminology in various keyboard commands to manipulate or edit the recorded text to accomplish revisions, or to perform tasks such as extracting and listing items from the text, or transmitting text to other terminals, or using "sort" commands to have the machine reorder material. Typically requires the use of automatic equipment which may be either computer linked or have a programmable memory so that material can be organized in regularly used formats or preformed paragraphs which can then be coded and stored for future use in letters or documents.

Typist I

Performs *one or more of the following:* Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following:* Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

WORD PROCESSOR

(4624: Typist)

Primary duty is to operate word-processing equipment to enter, store, retrieve, change, and present text or tabulations. Produces a variety of printed copy such as letters, documents, or reports. May enter regularly used formats or stored paragraphs that are organized and coded for future use. Recorded texts can be changed by rearranging paragraphs, replacing words, shifting lines, etc.

(Word-processing equipment typically has a full- or partial-page video-display screen (CRT) and a separate printer. The equipment may be integrated with a digital computer, have telecommunications capabilities, and also have capabilities for adding to or upgrading features. Automatic or electronic typewriters with limited text-editing capabilities, and often with single-line electronic display "windows," are not considered word-processing equipment.)

Excluded from this definition are:

a. Workers whose primary function is to enter a data base for purposes other than composition (see key entry operator);
b. Workers who use equipment and data base for purposes such as accounting, inventory control, sales, or original writing and editing;
c. Workers responsible for preparation of published reports, including page layout or selection of different type sizes.

Positions are classified into levels on the basis of the following definitions:

Word Processor I

Performs tasks requiring a knowledge of the word-processing equipment and familiarity with the formats and forms used in the establishment. Proficiency in grammar, spelling, and punctuation is also required to produce printed materials accurately. May refer problems to supervisor or higher level processor, or refer to operating manual.

Word Processor II

Work at this level requires considerable classroom or on-the-job training and may involve working directly with task originator rather than through supervisor. In addition to work assignments described for level I, duties include *one or more of the following:*

a. Uses the more sophisticated features of the equipment to carry out complex assignments, such as sorting, merging, and organizing text, or maintaining files;
b. Applies knowledge of specialized terminology or foreign language;
c. Tests new applications and procedures; or
d. Trains lower level processors.

KEY ENTRY OPERATOR

(4793: Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

ACCOUNTING CLERK

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc.; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

(4713: Payroll and timekeeping clerk)

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

FILE CLERK

(4696: File clerk)

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

(4745: Messenger)

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening mail, distributing mail on a regularly scheduled route or in a familiar area, and other minor clerical work. May deliver mail that requires some special handling, e.g., mail that is insured, registered, or marked for special delivery.

Excluded are positions which include any of the following as significant duties:

a. Operating motor vehicles;
b. Delivering valuables or security-classified mail when the work requires a continuing knowledge of special procedures for handling such items;
c. Weighing mail, determining postage, or recording and controlling registered, insured, and certified mail in the mail room;
d. Making deliveries to unfamiliar or widely separated buildings or points which are not part of an established route; or
e. Directing other workers.

ORDER CLERK

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

Exclude workers paid on a commission basis or whose duties include any of the following: Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

RECEPTIONIST

(4645: Receptionist)

Greets visitors, determines nature of visits, and directs visitors to appropriate persons. Receptionist duties may also include providing information, making appointments, answering a telephone (other than switchboard or console), keeping a log of visitors, and issuing visitor passes. May also perform typing or other routine clerical duties which may occupy a major portion of time, and are usually performed at the reception desk.

This classification excludes workers operating a telephone switchboard or console, performing guard duties, or performing more difficult clerical duties.

SWITCHBOARD OPERATOR

(4732: Telephone operator)

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, may also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST

(4645: Receptionist)

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

Professional and Technical

NOTE: The following descriptions for computer systems analysts, programmers, and operators are derived from job descriptions developed for the National Survey of Professional, Administrative, Technical, and Clerical Pay (PATC). For the most part, they are comparable to the PATC descriptions for systems analysts and programmers levels I to IV and computer operators levels I to III. The level IV computer operator description is comparable to the combined levels IV, V, and VI PATC descriptions.

COMPUTER SYSTEMS ANALYST

(171:Computer systems analyst)

Analyzes business or scientific problems for resolution through electronic data processing. Gathers information from users, defines work problems, designs a system of computer programs and procedures to resolve the problems, and develops complete specifications (precise descriptions) to enable computer programmers to prepare required programs. May write the computer programs.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Trainees who receive detailed directives and work plans, select authorized procedures for use in specific situations, and seek assistance for deviations and problems;

b. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;

c. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;

d. Computer systems analysts dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;

e. Top technical experts above level IV who develop broad unprecedented computer systems and/or conduct critical studies central to the success of large organizations having extensive technical or highly diversified computer requirements; and

f. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources.

Positions are classified into levels on the basis of the following definitions:

Computer Systems Analyst I

Initial assignments are designed to expand practical experience in applying systems analysis techniques and procedures. Works independently carrying out factfinding and analysis of a single activity or routine problem. Applies established procedures where nature of system, feasibility, computer equipment, and programming language have already been decided. Adapts guides to specific situations. May solve routine user problems by modifying the existing system following clear precedents.

Supervisor defines objectives, priorities, and deadlines. Obtains advice where precedents are unclear or not available.

May direct technicians and others who assist in specific assignments.

Computer Systems Analyst II

Works independently developing or modifying a system of several varied sequences or formats where the nature of the system is predetermined. Recognizes probable interaction of related computer systems and predicts impact of a change in assigned system.

Typical duties include reviewing project proposals; gathering facts; analyzing data, preparing project synopses comparing alternatives; preparing specifications for programs; resolving processing problems; coordinating work with programmers; and orienting users.

Work requires competence in most phases of systems analysis and knowledge of system software and work processes.

May direct lower level analysts on assigned work. *OR*

Works on a segment of a complex data processing system as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments.

Computer Systems Analyst III

Works independently maintaining and modifying complex systems or developing new subsystems. Systems typically input data from diverse sources and have multiple users.

Typical duties include guiding users in formulating requirements; analyzing project proposals; arbitrating conflicts between users; recommending optimum approach; and developing systems design. May serve as lead analyst directing and integrating the work of one or two lower level analysts.

Computer Systems Analyst IV

As a team or project leader, provides complete systems design in a highly complex area. The systems design establishes the framework from feasibility studies to post-implementation evaluation. May serve as the technical authority for a design area. At least one team member performs work at level III. *AND/OR*

As a staff specialist or consultant, resolves unique and unyielding systems problems using new technology. May be assisted on project by other analysts or technicians.

COMPUTER PROGRAMMER

(397:Programmer)

Converts specifications (precise descriptions) of business or scientific problems into a sequence of detailed instructions to solve the problems by digital computer. Draws program flow charts to describe the processing of data and develops the precise steps and processing logic which, when entered into the computer in coded language, cause the manipulation of data to achieve desired results. Tests and corrects programs and prepares instructions for operators who control the computer during production runs. Modifies programs to increase operating efficiency or to respond to changes in work processes; maintains records to document program development and revisions.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;
b. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;
c. Computer programmers (e.g., systems programmers) dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;
d. Employees with significant responsibility for supervising workers other than programmers or functions other than computer programming;
e. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources; and
f. Team leaders and consultants above level IV who define highly complex programming problems and direct the development of computer programs for their solution, *AND/OR*
Team leaders and consultants who design improvements for highly complex programming problems where few precedents exist.

Positions are classified into levels on the basis of the following definitions:

Computer Programmer I

Receives classroom and/or on-the-job training in computer programming concepts and requirements of the subject-matter field. Performs elementary programming tasks such as drawing flow charts, writing operator instructions, or coding and testing simple programs.

Detailed step-by-step instructions are given; work is closely monitored in progress and reviewed in detail upon completion. Deviations must be authorized by supervisor.

May perform routine programming tasks as described in level II under close supervision. Also may perform elementary factfinding concerning a specific work process.

Computer Programmer II

Maintains and modifies routine programs. Work progresses from initial assignments designed to develop competence to work requiring a knowledge of established procedures and data processing requirements. Typical tasks include amending flow charts; coding, testing, and documenting changes; and writing routine new programs.

May evaluate simple interrelationships in programs and obtain information from users to modify routine programs.

Assignments have clear-cut and complete specifications and the format of the final product is very similar to that of the inputs. Work is monitored in progress and reviewed upon completion.

Computer Programmer III

As a fully qualified computer programmer, develops, modifies, and maintains conventional programs. Uses standard procedures and detailed specifications to independently devise program logic (may include translating mathematical notation), modify interrelationship of files and records, diagnose and correct errors, test and document work, and write computer operator instructions. The programs developed are typically linked to several other programs, with a variety of input records and varied formats produced in the output.

In addition, may analyze a single activity or routine problem when the nature of the programs, feasibility, and type of computer language and equipment have already been determined. Completed work is reviewed for conformance to standards, timeliness, and efficiency. May also guide or instruct lower level programmers, technicians, and others who assist on assignments. *OR*

Under close supervision, works on complex programs as described in level IV.

Computer Programmer IV

As an expert programmer, independently develops, modifies, and maintains complex programs which produce several interrelated but different products. Programs use data from diverse sources and have multiple users. Tests, documents, and writes operating instructions for all work.

May perform programming analysis such as investigating the feasibility of developing alternate programs, assisting users in defining needs, or participating on an EDP and user team working on large and complicated programs.

Completed work is reviewed for timeliness, compatibility with other work, and effectiveness in meeting requirements. May function as team leader of a few lower level programmers or technicians on assigned work.

COMPUTER OPERATOR

(4612:Computer operator)

Monitors and operates the control console of either a main-frame digital computer or a group of mini-computers, in accordance with operating instructions, to process data. Work is characterized by the following:

- Studies operating instructions to determine equipment setup needed;
- Loads equipment with required items (tapes, cards, paper, etc.);
- Switches necessary auxiliary equipment into system;
- Starts and operates console;
- Diagnoses and corrects equipment malfunctions;
- Reviews error messages and makes corrections during operation or refers problems;
- Maintains operating record.

May test run new or modified programs and assist in modifying systems or programs. Included within the scope of this definition are fully qualified computer operators, trainees working to become fully qualified operators, and lead operators providing technical assistance to lower level positions.

Excluded are:

a. Workers operating small computer systems where there is little or no opportunity for operator intervention in program processing and few requirements to correct equipment malfunctions;
b. Peripheral equipment operators and remote terminal or computer operators who do not run the control console of either a main-frame digital computer or a group of mini-computers (see peripheral equipment operator); and
c. Workers using the computer for scientific, technical, or mathematical work when a knowledge of the subject matter is required.

Positions are classified into levels on the basis of the following definitions:

Computer Operator I

Receives on-the-job training in operating the control console (sometimes augmented by classroom training). Works under close personal supervision and is provided detailed written or oral guidance before and during assignments. As instructed, resolves common operating problems. May serve as an assistant operator working under close supervision or performing a portion of a more senior operator's work.

Computer Operator II

Processes scheduled routines which present few difficult operating problems (e.g., infrequent or easily resolved error conditions). In response to computer output instructions or error conditions, applies standard operating or corrective procedure. Refers problems which do not respond to preplanned procedure. May serve as an assistant operator, working under general supervision.

Computer Operator III

Processes a range of scheduled routines. In addition to operating the system and resolving common error conditions, diagnoses and acts on machine stoppage and error conditions not fully covered by existing procedures and guidelines (e.g., resetting switches and other controls or making mechanical adjustments to maintain or restore equipment operations). In response to computer output instructions or error conditions, may deviate from standard procedures if standard procedures do not provide a solution. Refers problems which do not respond to corrective procedures.

Computer Operator IV

Resolves a variety of nonstandard problems (e.g., frequent new programs, applications, and procedures). Problems may require unusual equipment connections and channel configurations. May also provide technical assistance to lower level operators and use knowledge of program languages, computer features, and software systems in assisting programmers, systems analysts, and other users in resolving problems. Completed work is usually submitted to users without supervisory review.

PERIPHERAL EQUIPMENT OPERATOR

(4613: Peripheral equipment operator)

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy;
b. Labeling tape reels, disks, or card decks;
c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives;
d. Setting controls which regulate operation of the equipment;
e. Observing panel lights for warnings and error indications and taking appropriate action;
f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

(4696: File clerk)
(4754: Stock and inventory clerk)

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

(372: Drafting occupation)

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
b. Illustrating work requiring artistic ability;
c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions:

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts of equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

(3711: Electrical and electronic engineering technologist and technician)
(615: Electrical and electronic equipment repairer)

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instruments, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

(29: Registered nurse)

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve *a combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

(6422: Carpenter)

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

(615: Electrical and electronic equipment repairer)
(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

(6442: Painter, construction and maintenance)

Paints and redecorates walls, woodwork, and fixtures of an establishment. Work *involves the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment of an establishment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE PIPEFITTER

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings in an establishment. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe

required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MILLWRIGHT

(6178: Millwright)

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in the plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MOTOR VEHICLE MECHANIC

(611: Vehicle and mobile equipment mechanic and repairer)

Repairs, rebuilds, or overhauls major assemblies of internal combustion automobiles, buses, trucks, or tractors of an establishment. Work involves most of the following: Diagnosing the source of trouble and determining the extent of repairs required; replacing worn or broken parts such as piston rings, bearings, or other engine parts; grinding and adjusting valves; rebuilding carburetors; overhauling transmissions; and repairing fuel injection, lighting, and ignition systems. In general, the work of the motor vehicle mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles or who only perform minor repair and tuneup of motor vehicles. It does, however, include fully qualified journeymen mechanics even though most of their time may be spent on minor repairs and tuneups.

GENERAL MAINTENANCE WORKER

(6179: Mechanic and repairer, not elsewhere classified)

Performs general maintenance and repair of building structures and their mechanical, electrical, or sanitary systems. May also perform general maintenance and repair of the establishment's machinery. Work requires a basic practical knowledge of several maintenance trades in order to perform most of the following: Keeping in good repair building woodwork; replacing electrical switches, fixtures, and motors; occasional painting or touching up of structure or equipment; repairing or replacing plumbing fixtures; and replacing broken window panes.

Excluded are positions requiring a formal apprenticeship or equivalent training in one or more crafts. Also excluded are workers participating in such a program.

MAINTENANCE TRADES HELPER

(863: Helper; mechanic and repairer)
(864: Helper; construction trades)

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)

(6813: Machinist)
(731-2: Metalworking and plasticworking machine setup operator)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER

(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

(6931: Stationary engineer)

Operates and maintains one or more systems which provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale; and boiler tenders.

Material Movement and Custodial

TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck
(straight truck, under 1 1/2 tons, usually 4 wheels)
Truckdriver, medium truck
(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)
Truckdriver, heavy truck
(straight truck, over 4 tons, usually 10 wheels)
Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

(4753: Traffic, shipping and receiving clerk)

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper
Receiver
Shipper and receiver

WAREHOUSEMAN

(4754: Stock and inventory clerk)

As directed, performs a *variety* of *warehousing* duties which require an *understanding of the establishment's storage plan*. Work involves *most of the following*: Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose *primary* duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

(8761: Hand packer and packager)

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and *may involve one or more of the following*: Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. *Packers who also make wooden boxes or crates are excluded.*

MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

Performs physical tasks to transport or store materials or merchandise. Duties involve *one or more of the following:* Manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by handtruck, cart, or wheelbarrow.

Excluded from this definition are workers whose primary function involves:

a. Participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process);
b. Stocking merchandise for sale;
c. Counting or routing merchandise;
d. Operating a crane or heavy-duty motorized vehicle such as forklift or truck;
e. Loading and unloading ships (longshore workers); or
f. Traveling on trucks beyond the establishment's physical location to load or unload merchandise.

POWER-TRUCK OPERATOR

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:
Forklift operator
Power-truck operator (other than forklift)

GUARD

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Area Wage Survey Summaries

The following areas are surveyed periodically under contract to the Employment Standards Administration of the U.S. Department of Labor for its use in administering the Service Contract Act of 1965. Reports on the surveys shown below are available at no cost from any of the Bureau's regional offices while supplies last.

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Albuquerque, NM
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Alpena-Standish-Tawas City, MI
Ann Arbor, MI
Asheville, NC
Atlantic City, NJ
Augusta, GA-SC
Austin, TX[1]
Bakersfield, CA
Baton Rouge, LA
Battle Creek, MI
Beaumont-Port Arthur and Lake Charles, TX-LA
Biloxi-Gulfport and Pascagoula-Moss Point, MS
Binghamton, NY
Birmingham, AL
Bloomington-Vincennes, IN
Bremerton-Shelton, WA
Brunswick, GA
Cedar Rapids, IA
Champaign-Urbana-Rantoul, IL[1]
Charleston, SC[1]
Chattanooga, TN-GA
Cheyenne, WY
Clarksville-Hopkinsville, TN-KY
Colorado Springs, CO
Columbia-Sumter, SC
Columbus, GA-AL
Columbus, MS
Connecticut (statewide)
Dayton-Springfield, OH
Daytona Beach, FL
Decatur, IL[1]
Des Moines, IA
Dothan, AL
Duluth, MN-WI
El Paso-Las Cruces-Alamogordo, TX-NM
Eugene-Springfield-Medford-Roseburg-Klamath Falls-Grants Pass, OR
Fayetteville, NC
Fort Lauderdale-Hollywood-Pompano Beach and West Palm Beach-Boca Raton-Delray Beach, FL
Fort Smith, AR-OK
Fort Wayne, IN
Gadsden and Anniston, AL
Goldsboro, NC
Grand Island-Hastings, NE
Green Bay, WI[2]
Greensboro-Winston-Salem-High Point, NC[2]
Greenville-Spartanburg, SC
Harrisburg-Lebanon-Carlisle, PA
Jacksonville, FL
Knoxville, TN
LaCrosse-Sparta, WI
Laredo, TX
Las Vegas-Tonopah, NV
Lexington-Fayette, KY
Lima, OH
Little Rock-North Little Rock, AR
Logansport-Peru, IN
Lorain-Elyria, OH
Lower Eastern Shore, MD-VA-DE
Macon, GA
Madison, WI
Maine (statewide)
Manhattan-Junction City, KS
Mansfield, OH
McAllen-Edinburg-Mission and Brownsville-Harlingen, TX
Melbourne-Titusville-Palm Bay, FL
Meridian, MS
Montana (statewide)
Montgomery, AL
Nashville, TN
New Bern-Jacksonville, NC
New Hampshire (statewide)
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Poughkeepsie-Orange County-Kingston, NY
Providence, RI
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Puerto Rico
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Reno, NV
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Santa Barbara-Santa Maria-Lompoc, CA
Savannah, GA
Selma, AL
Sherman-Denison, TX
Southeastern Massachusetts
South Dakota (statewide)
Southwest Virginia
Spokane, WA
Springfield, IL
Stockton, CA
Tacoma, WA
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Yakima-Richland-Kennewick-Pasco-Walla Walla-Pendleton, WA-OR

[1] In 1988, this area is scheduled to be surveyed under the Bureau's regular area wage survey program.

[2] Scheduled to be surveyed in this program for the first time in 1988. In 1986, the area was surveyed under the Bureau's regular area wage survey program.

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